

September 26, 2022

Ms. Jennifer Dorman
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1027 W. St. Paul Avenue
Milwaukee, WI 53233

Project # 40441

Subject: **Fourth Groundwater Monitoring Event & Additional Site Investigation
Community Within the Corridor – East Block
2748 N. 32nd Street, Milwaukee, WI 53210
BRRTS #: 02-41-263675; FID #: 241025400**

Dear Ms. Dorman:

On behalf of the Community Within the Corridor Limited Partnership (CWC), K. Singh & Associates, Inc. (KSingh) is pleased to submit the results of a fourth round of groundwater results of the above referenced site. A site location map is on Figure 1 and the monitoring well locations are presented on Figure 2.

Additional Site Investigation

The additional site investigation activities included the following:

- Reinstalling a flush-mount cover on EB-MW-2.
- Converting EB-MW-3 from a stick-up pipe to a flush-mount well.
- Installing a deeper well adjacent to EB-MW-3, named EB-MW-3R.
- Abandoning MW-4R which was damaged during construction and reinstalling a new well named EB-MW-4RR. This well was damaged when the eastern exterior area was being redeveloped which broke off the stick-up protective pipe and cracked the PVC pipe.
- Driller is awaiting a City of Milwaukee permit to drill within the Right-of-Way (ROW) of N. 32nd St. (within the sidewalk area downgradient from Building 1A).

The environmental drilling was performed by Soils & Engineering Services, Inc. located in Madison, Wisconsin utilizing a Geoprobe 7822 DT rig. A survey of the elevations of the modification to well EB-MW-3 deeper well EB-MW-3R and replacement well EB-MW-4RR were performed by KSingh. Survey information is presented in Tables 1A and 1B.

Monitoring well, EB-MW-4R was damaged during construction. EB-MW-4R was abandoned in accordance with NR 141 of the Wisconsin Administrative Code (WAC). The soil boring logs and the monitoring well abandonment form is presented in Attachment A and the monitoring well construction and development forms are presented as Attachment B.

Groundwater Sampling & Results

Groundwater sampling was conducted for four (4) of the seven (7) monitoring wells on August 4, 2022 (MW-2, MW-4RR, MW-5 and MW-6). MW-1 has been dry since its installation back on May 5, 2021; MW-3, and MW-3R were also dry during this sampling event. These wells were sampled for the following parameters.

Well ID	VOCs	SVOCs	PAHs	PCBs	Metals	PFAs	Pesticides and Herbicides
MW-2	X		X	X			
MW-4RR	X	X		X			1
MW-5	X		X	X			
MW-6	X		X	X			

Note: X – sampled and, 1 - not enough water to sample. MW-2 and MW-4RR were also sampled for 1,4-Dioxane.

Prior to groundwater sampling, depth to water was measured in each monitoring well using a water level indicator and measuring from top of PVC casing. Groundwater Elevation Data is summarized in Table 1A and 1B. Groundwater flow is to the south southeast as shown on Figure 3; however, there are anomalies within the groundwater data.

Groundwater samples were collected in accordance with the WDNR's Groundwater Field Sampling Manual following purging and preserved on ice. The groundwater samples were submitted to Eurofins - Test America, Inc., University Park, Illinois using proper chain-of-custody procedures. Chain of Custody records and laboratory groundwater quality analytical results are included in Attachment C. Groundwater quality test results are summarized in Table 2.

On the August 4, 2022, sampling event, there were detections of VOCs in EB-MW-2 that were above both the NR 140 PAL and ES concentrations. At EB-MW-2 benzene at 30 ug/l, trichloroethene at 8.4 ug/l and vinyl chloride at 7.2 ug/l were detected above the NR 140 ES standards of 5 ug/l, 5 ug/l and 0.2 ug/l, respectively. In addition, 1,2,4-trimethylbenzene at 200 B (compound was found in the blank and sample) ug/l, chloromethane at 11 ug/l and naphthalene at 22 B ug/l were above their NR 140 PAL values of 96 ug/l, 3 ug/l, and 10 ug/l, respectively at EB-MW-2.

Generally, PVOCs were detected at very low levels and were not exceeding NR 140 PALs in wells EB-MW-4RR, EB-MW-5 and EB-MW-6. In addition, they were J (Result is less than the Reporting Limit {RL} but greater than or equal to the Method Detection Limit {MDL} and the concentration is an approximate value) and typically B flagged. The PVOC compounds that were detected included trimethylbenzenes (TMB), naphthalene, n-butylbenzene, and n-propylbenzene. The significance of this is that the laboratory's blank sample did contribute contamination to our groundwater samples.

Of the SVOCs, benzo(a)pyrene at 0.17 ug/l, benzo(b)fluoranthene at 0.19 ug/l and bis(2-ethylhexyl)phthalate (a plasticizer, used in vacuum pumps) 3.8 ug/l were above the NR 140 PAL of 0.02 ug/l, 0.02 ug/l and 0.6 ug/l respectively on the August 4, 2022, sampling event in MW-4RR.

Of the PAHs, benzo(a) pyrene at 0.49 ug/l, benzo(b) fluoranthene at 0.56 ug/l and chrysene at 0.77 ug/l were above the NR 140 ES of 0.2 ug/l in MW-2. In addition, naphthalene at 12 ug/l was above the NR 140 PAL of 10 ug/l in ES-MW-2. There were no exceedances of PAHs in EB-MW-5 and EB-MW-6 above the laboratory's method detection limits.

Of the PCBs, PCB-1248 was detected at 4.3 ug/l which was above the NR 140 ES of 0.003 ug/l at MW-2. There were no PCB detected in MW-4RR, MW-5 and MW-6.

1,4-Dioxane was detected at 31.0 E (E - Result exceeded calibration range) ug/l in MW-2 which was above the NR 140 ES of 0.3 ug/l. In MW-4RR, 1,4-Dioxane was not detected above the laboratory's method detection limit.

Conclusions

In summary, based on one to four groundwater sampling events, KSingh has made the following conclusions and recommendations:

- MW-2 has been impacted with PVOCS, CVOCs, and PAHs which are residual groundwater contamination from the previous BRRTS files.
 - 03-41-000793 (Jonas Construction – Closed LUST), this case was opened on June 8, 1990, and was closed on February 14, 2007, with continuing obligations, and
 - 02-41-263675 (Formerly Wisconsin Industries Pension & Trust) in which this case was opened on January 11, 2001, and was closed on August 26, 2008, with continuing obligations.
 - PCB-1248 (March 30, 2022) and -1254 (August 4, 2022) were new detects in this well above the NR 140 NR ES as that area had several electrical transformers within the past.
 - Also, 1,4 - Dioxane was detected in this well a second time. One use of 1,4-Dioxane is a stabilizer for CVOCs which are present in MW-2.
- MW-3 and MW-3R were dry during this sampling event.
- MW-4RR detected benzo(a)pyrene, benzo(b)fluoranthene, and biz(2-ethylhexyl)phthalate which were above the NR 140 PAL, but below the NR 140 ES.
- There were no chemicals of concern with both MW-5 and MW-6 for the August 4, 2022, sampling event.
- The PFAs sample of MW-6 were all below the laboratory's method detection limits on the March 10, 2022 sampling event.
- The CVOC groundwater impacts remain confined to the northern one-third of the subject property and the southern two-thirds of the subject property have been free of CVOC which is consistent with the SIR groundwater data. CVOCs are related to BRRTS file # 02-41-263675 (Formerly Wisconsin Industries Pension & Trust).
- No NR 140 ES exceedances have been detected that are related to former industrial operations on the southern two-thirds of the site with the exception of benzo(a)pyrene which was just barely above the NR 140 ES on the March 10, 2022, groundwater sampling event.
- KSingh recommends an additional groundwater sampling event for this project, due to the NR 140 ES exceedances.

Please contact us if you have any questions.

Sincerely,

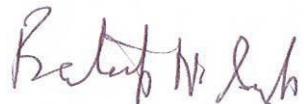
K. SINGH & ASSOCIATES, INC.



Daniel K. Pelczar, CPG, P.G.
Senior Geologist



Robert T. Reineke, P.E.
Project Manager



Pratap N. Singh, Ph.D., P.E.
Principal Engineer

cc: Shane LaFave / Roers Companies
Que El-Amin / Scott Crawford, Inc.

Attachments:

- | | |
|--------------|--|
| Figure 1 | Site Location Map |
| Figure 2 | Locations of Soil Probes, Monitoring Wells, Sub-Slab Vapor and Sub-Slab Soil Samples |
| Figure 3 | Groundwater Flow Map (August 4, 2022) |
| Table 1 | Groundwater Elevation Data |
| Table 2 | Groundwater Quality Test Results |
| Attachment A | Soil Bring Logs and the Abandonment Form |
| Attachment B | Monitoring Well Construction and Development Forms |
| Attachment C | Groundwater Analytical Results |

FIGURES

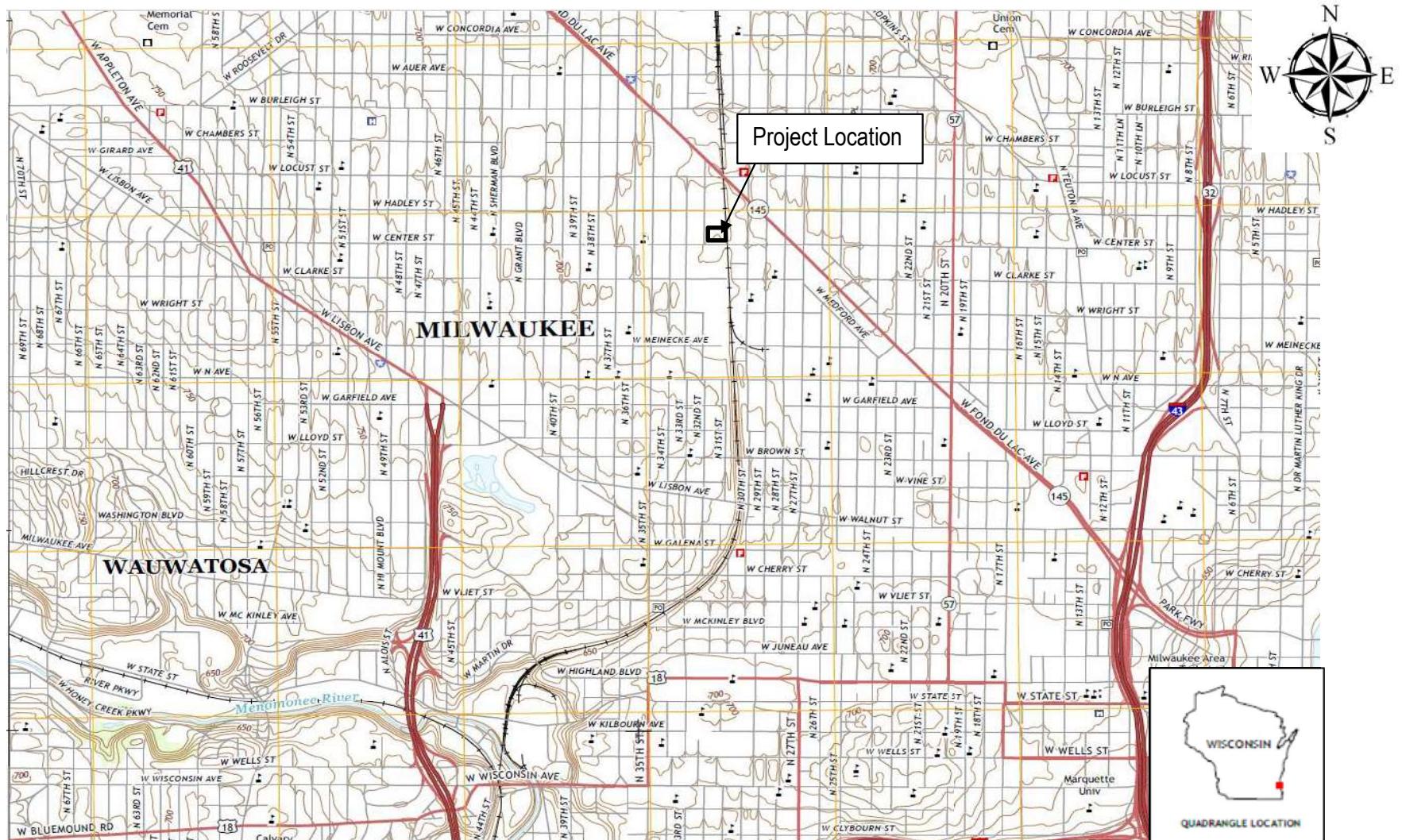


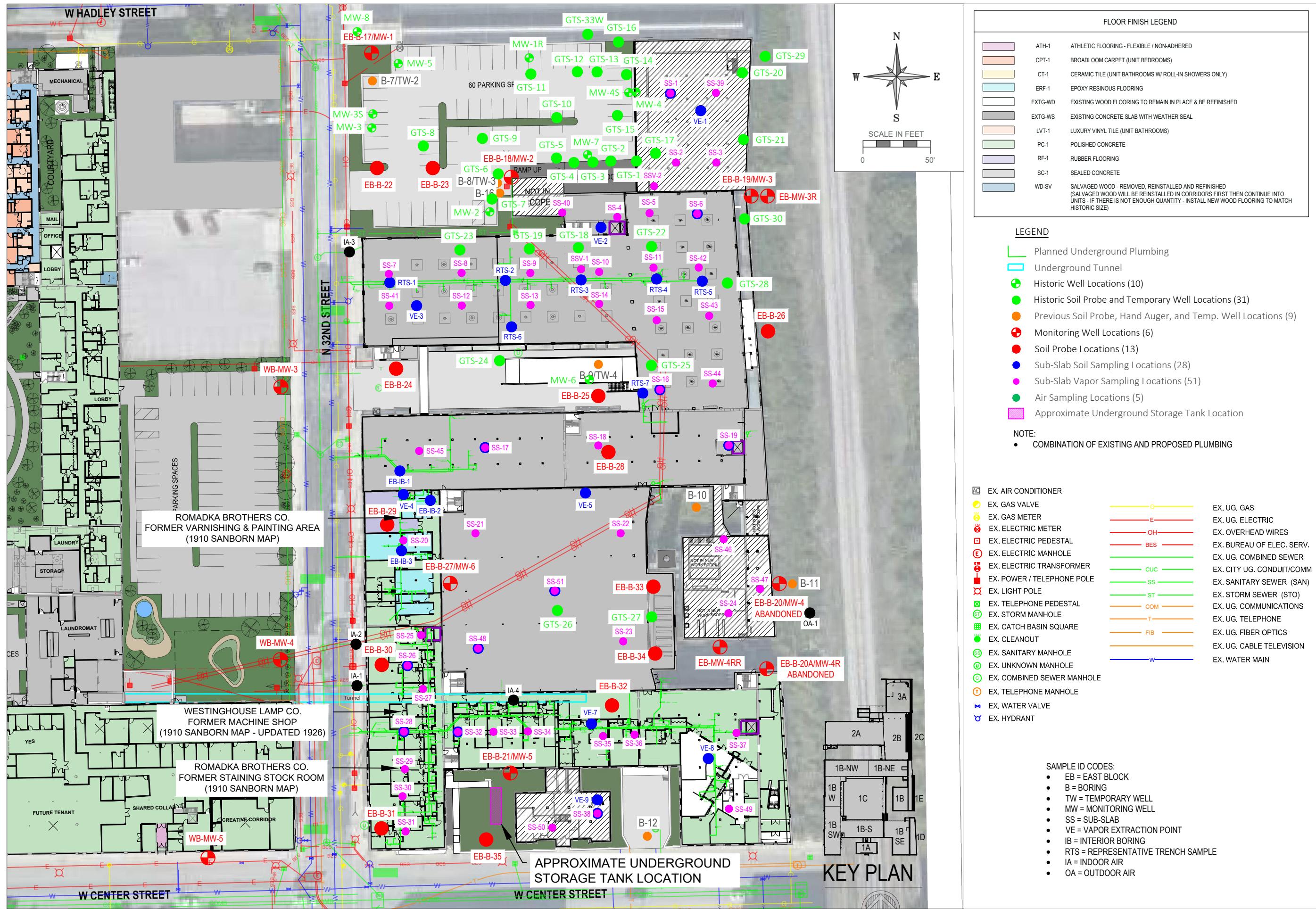
Figure 1. Topographic Map of Project Location
from 2016 Milwaukee, WI 7.5-Minute Series
Map Scale 1: 24,000

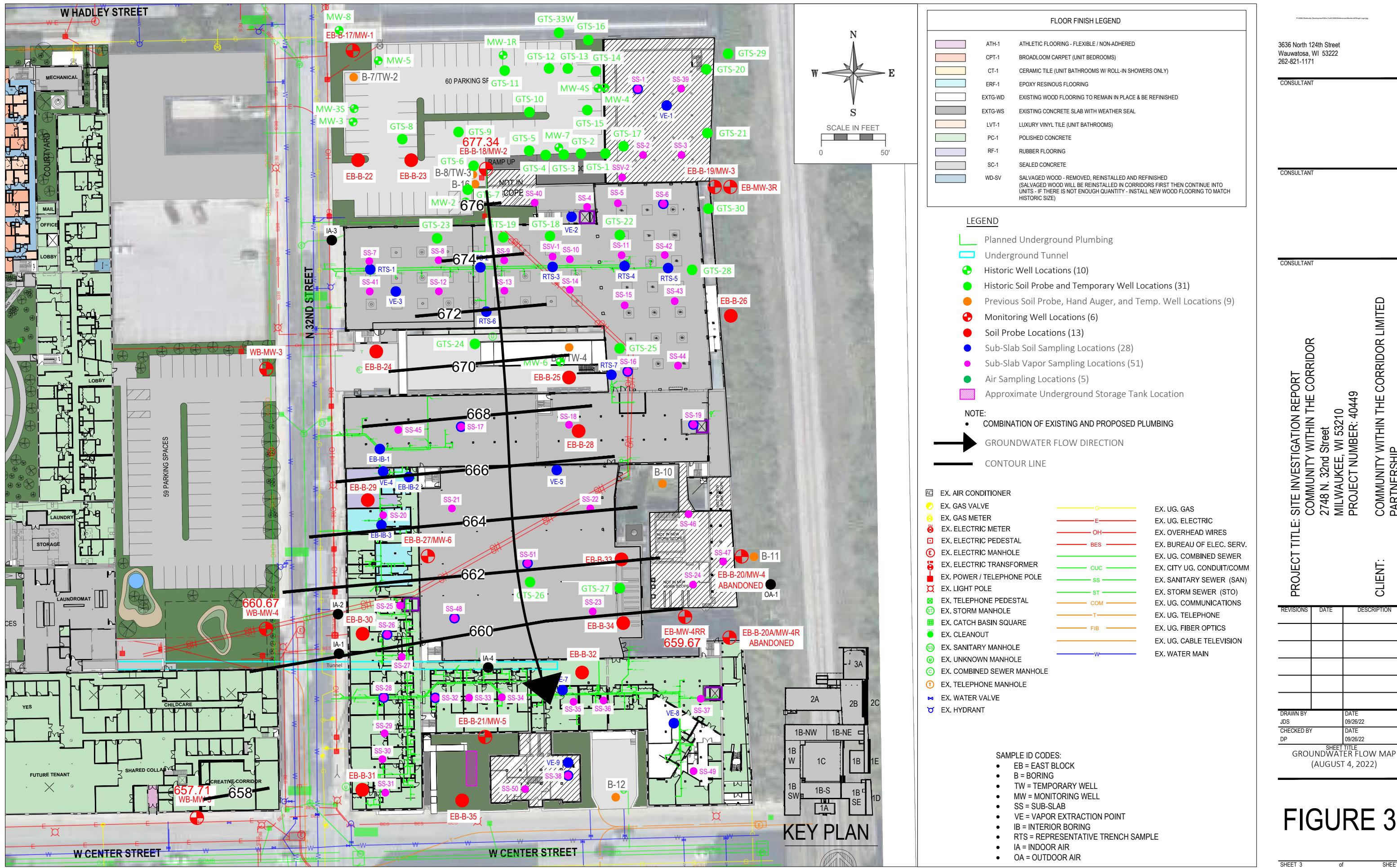
REVISIONS	DATE	DESCRIPTION

DRAWN BY DATE 09/01/22
CHECKED BY DATE 09/01/22

SHEET TITLE LOCATIONS OF SOIL PROBES,
MONITORING WELLS, SUB-SLAB
VAPOR AND SUB-SLAB SOIL SAMPLES

FIGURE 2





TABLES

TABLE 1
 GROUNDWATER ELEVATION DATA
 COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
 MILWAUKEE, WI
 PROJECT NUMBER: 40441

Well ID	Units	EB-MW-1	EB-MW-2	EB-MW-3	EB-MW3*	EB-MW-3R	EB-MW-4	EB-MW-4R	EB-MW-4RR	EB-MW-5	EB-MW-6
Date Installed		5/5/2021	6/3/2021	7/21/2021	7/21/2021	7/19/2022	7/21/2021	11/29/2021	7/19/2022	6/3/2021	7/20/2021
Ground Elevation	Feet	686.592	685.932	684.66	683.822	683.773	685.1	684.35	680.714	680.026	676.102
TOC Elevation	Feet	689.625	685.512	687.727	683.748	682.285	688.074	686.60	680.114	682.848	675.713
TOS Elevation	Feet	677.662	681.01	674.66	673.82	664.04	671.6	674.35	673.51	673.946	664.602
BOS Elevation	Feet	662.662	666.01	664.66	664.66	649.04	656.60	659.35	658.51	663.94	649.60
Screen Height	Feet	15	10	15	15	15	15	15	15	10	15
DATE	DTW (TOC)	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW
5/18/2021	DRY	---	---	---	---	---	---	---	---	---	---
6/10/2021	DRY	---	---	---	---	---	---	---	---	---	---
6/22/2021	DRY	---	7.97	677.54	---	---	---	---	---	12.51	670.34
6/30/2021	DRY	---	7.75	677.76	---	---	---	---	---	12.54	670.31
7/20/2021	DRY	---	7.99	677.52	---	---	---	---	---	12.74	670.11
7/29/2021	DRY	---	8.12	677.39	DRY	---	---	27.21	660.86	12.87	669.98
8/19/2021	DRY	---	7.85	677.66	22.44	665.29	---	Broken/Damaged	---	11.50	671.35
8/25/2021	DRY	---	---	---	22.44	665.29	---	Broken/Damaged	---	---	23.71
11/12/2021	DRY	---	Broken/Damaged	22.69	665.04	---	---	Abandoned	---	12.43	670.42
11/29/2021	DRY	---	Broken/Damaged	22.69	665.04	---	---	Abandoned	---	---	---
12/13/2021	DRY	---	Broken/Damaged	DRY	---	---	---	Abandoned	25.81	660.79	---
3/10/2022	DRY	---	Broken/Damaged	DRY	---	---	---	Abandoned	25.67	660.93	13.55
3/30/2022	DRY	---	7.97	677.54	---	---	---	Abandoned	---	---	---
8/4/2022	DRY	---	8.17	677.34	---	DRY	---	Abandoned	20.44	659.67	11.93
								Abandoned		670.92	19.40
										656.31	

Notes:

* = Converted from a stickup pipe to a flushmount cover.

TABLE 2
GROUNDWATER QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40449

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COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40449

Notes:

Italics = Exceeds NR 140 Preventive Action Limits (PAL)

Bold = Exceeds NR 140 Enforcement Limits (ES)

--- No Established Standards

* = The combined total of 1,2,4 and 1,3,5-TME

The combined total of 7,217 and 7,218 were

*+ = LCS and/or LCSD is outside acceptance limits, high biased

* = LCS and/or LCSD is outside acceptance limits, low biased

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

B = Compound was found in the blank and sample

Methylene Chloride present in EB-MW-2 and EB-MW-5 is a lab artifact, indicated by a detection in the 7/20/2021 trip blank

1 - Incorrectly labeled in the analytical lab report as EB-B-17/MW-

2 - Dup-1 is of MW-6

3 - Dup-2 is of MW-4RR

ATTACHMENTS

ATTACHMENT A

Soil Bring Logs and the Abandonment Form

SOIL BORING LOG

PROJECT NAME: East Block - CWC

DRILL EQUIP: Geoprobe 7822DT

DRILLER: Scott Klumb

DRILLING METHOD: HSA

CONTRACTOR: Soil & Engineering Services, Inc.

GROUND SURFACE ELEVATION: 682.773

NORTH: 396441.582

EAST: 2547029.908

CHECKED BY: Daniel Pelczar, CPG, PG

FIELD ENGINEER: Alexander Huebner

DATE BEGAN: 7/19/2022

DATE FINISHED: 7/19/2022

PROJECT NO: 40441

BORING NO: EB-MW-3R

Elevation (FT)	Depth (FT)	Description	Graphic Profile	Graphic Well Profile	USCS	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, 1sf)
680.0	0.0	See EB-B-19/MW-3 boring log for soil descriptions (0' to 25'). Blind Drilled.													
675.0	5.0														
670.0	10.0														
665.0	15.0														
660.0	20.0														
655.0	25.0	SILTY SAND (SM) - Very dense, brown, moist, fine grained, some gravel			SM	9-37-96	100+	1-SS	18/18					0.1	NA
650.0	30.0	Trace gravel			SM	10-33-81	100+	2-SS	13/18					0.1	NA
645.0	35.0	Converted into monitoring well EB-MW-3R			SM	9-100/5	100+	3-SS	11/18					0.1	NA

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- | | | |
|---|---|--|
| <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Watershed/Wastewater | <input type="checkbox"/> Remediation/Redevelopment |
| <input type="checkbox"/> Waste Management | <input type="checkbox"/> Other: _____ | |

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #				
Latitude / Longitude (see instructions)		Format Code	Method Code			
		N	<input type="checkbox"/> DD	<input type="checkbox"/> GPS008		
		W	<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002		
				<input type="checkbox"/> OTH001		
1/4 / 1/4 or Gov't Lot #	1/4	Section	Township	Range	E	
			N		W	

Well Street Address

Well City, Village or Town

Well ZIP Code

Subdivision Name

Lot #

Reason for Removal from Service

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	
<input type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)

Casing Diameter (in.)

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

Was well annular space grouted?

Yes No Unknown

If yes, to what depth (feet)?

Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

6. Comments

7. Supervision of Work

DNR Use Only				
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
Street or Route	Telephone Number ()		Comments	
City	State	ZIP Code	Signature of Person Doing Work	
			Date Signed	

SOIL BORING LOG

PROJECT NAME: East Block - CWC
DRILL EQUIP: Geoprobe 7822DT
DRILLER: Scott Klumb
DRILLING METHOD: HSA
CONTRACTOR: Soil & Engineering Services, Inc.

GROUND SURFACE ELEVATION: 680.714
NORTH: 396107.675
EAST: 2546997.404
CHECKED BY: Daniel Pelczar, CPG, PG
FIELD ENGINEER: Alexander Huebner

DATE BEGAN: 7/19/2022
DATE FINISHED: 7/19/2022
PROJECT NO: 40441
BORING NO: EB-MW-4RR

Elevation (FT)	Depth (FT)	Description	Graphic Profile	Graphic Well Profile	USCS	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, 1sf)
680.0	0.0	CONCRETE (6") See EB-B-20/MW-4R boring log for soil descriptions (0' to 33'). Blind Drilled.			CRETE										
675.0	5.0														
670.0	10.0														
665.0	15.0														
660.0	20.0														
655.0	25.0														
650.0	30.0														
645.0	35.0	SILTY CLAY (CL) - Very stiff, grey, moist, some gravel, trace sand Converted into monitoring well EB-MW-4RR			CL	20-29-31-35	66	1-SS	24/24					0.1	3.5

ATTACHMENT B

Monitoring Well Construction and Development Forms

Facility/Project Name: 40443A CWC		Local Grid Location of Well ft. N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name EW-MW-3R	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or		Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>	
Facility ID		St. Plane ft. N. _____ ft. E. S/C/N		Date Well Installed 07/19/2000 m m d d y y y y	
Type of Well Well Code /		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm Scott Klumb SES	
Distance from Waste/ Source ft.	Env. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number		
<p>A. Protective pipe, top elevation - - - - - ft. MSL</p> <p>B. Well casing, top elevation - - - - - ft. MSL</p> <p>C. Land surface elevation - - - - - ft. MSL</p> <p>D. Surface seal, bottom - - - - - ft. MSL or - - - - ft.</p> <p>12. USCS classification of soil near screen: <input type="checkbox"/> GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 <input checked="" type="checkbox"/> Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> 99</p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required):</p>					
E. Bentonite seal, top - - - - - ft. MSL or - - - - ft.	F. Fine sand, top - - - - - ft. MSL or - - - - ft.	G. Filter pack, top - - - - - ft. MSL or - - - - ft.	H. Screen joint, top - - - - - ft. MSL or - - - - ft.	I. Well bottom - - - - - ft. MSL or - - - - ft.	J. Filter pack, bottom - - - - - ft. MSL or - - - - ft.
K. Borehole, bottom - - - - - ft. MSL or - - - - ft.	L. Borehole, diameter - - - - in. 2 3/8	M. O.D. well casing - - - - in. 2	N. I.D. well casing - - - - in.		
<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 8 1/2 in. b. Length: 12 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes, describe: flush mount</p> <p>3. Surface seal: Red Flint 40 Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. ____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. ____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. ____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. ____ Ft³ volume added for any of the above</p> <p>f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint 15</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint 40</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Hole Pro c. Slot size: MONOTEX d. Slotted length: 0.05 in. 15 ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/> Red Flint 40</p>					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Scott Klumb** Firm **K Singh**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Facility/Project Name 40443A CWC		Local Grid Location of Well ft. N. _____ ft. E. _____ ft. S. _____ ft. W. _____		Well Name EB-MW - HRR	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ " or St. Plane _____ ft. N. _____ ft. E. _____ S/C/N _____		Wis. Unique Well No. _____ DNR Well ID No. _____	
Facility ID		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____		Date Well Installed 07/19/2022 m m d d y y y y	
Type of Well Well Code _____ / _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Distance from Waste/ Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>				
<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p>					
<p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p>					
E. Bentonite seal, top _____ ft. MSL or _____ ft.	13	<p>1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? If yes, describe: Flushmount</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight..... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. Red Flint 15</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint 40</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: a. Screen type: Factory cut <input type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer Hole Products c. Slot size: MONTLEX 0.01 in. d. Slotted length: 15 ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/></p>			
I hereby certify that the information on this form is true and correct to the best of my knowledge.					
Signature		Firm			

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other _____

Facility/Project Name <u>CWC - FB</u>	County Name	Well Name <u>EB-mw-4BR</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number DNR Well ID Number

1. Can this well be purged dry?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Depth to Water (from top of well casing)	Before Development <u>20.44 ft.</u> After Development <u>22.2 ft.</u>
2. Well development method	<input checked="" type="checkbox"/> 41 <input type="checkbox"/> 61 <input type="checkbox"/> 42 <input type="checkbox"/> 62 <input type="checkbox"/> 70 <input type="checkbox"/> 20 <input type="checkbox"/> 10 <input type="checkbox"/> 51 <input type="checkbox"/> 50 <input type="checkbox"/> 44 surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only pumped only pumped slowly Other _____	Date <u>b. 08/04/2020</u>	<u>m m d d y y y y</u> <u>08/04/2020</u>
3. Time spent developing well	<u>2</u> min.	Time <u>c. 12:55 p.m.</u>	<u>1:00 p.m.</u>
4. Depth of well (from top of well casing)	<u>22.2</u> ft.	12. Sediment in well bottom	<u>2</u> inches
5. Inside diameter of well	<u>3</u> in.	13. Water clarity	Clear <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 15 <input checked="" type="checkbox"/> 25 (Describe) <u>Dark Brown</u>
6. Volume of water in filter pack and well casing	<u>—</u> gal.	14. Total suspended solids	<u>—</u> mg/l
7. Volume of water removed from well	<u>1</u> gal.	15. COD	<u>—</u> mg/l
8. Volume of water added (if any)	<u>—</u> gal.	16. Well developed by: Name (first, last) and Firm	
9. Source of water added		First Name: <u>Alex</u>	Last Name: <u>Hurber</u>
10. Analysis performed on water added? (If yes, attach results)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Firm: <u>KSingh</u>	
17. Additional comments on development:			

Name and Address of Facility Contact/Owner/Responsible Party
First Name: <u>Alex</u> Last Name: <u>Hurber</u>
Facility/Firm: <u>3636 K Singh</u>
Street: <u>3636 N 124th St</u>
City/State/Zip: <u>Wauwatosa, WI 53226</u>

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Alex Hurber
Print Name: Alexander Hurber
Firm: K Singh

NOTE: See instructions for more information including a list of county codes and well type codes.

APPENDIX C

Groundwater Analytical Results



Environment Testing
America



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-220496-1
Client Project/Site: East Block CWC - 40441

For:
K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Robert Reineke

Sandra Fredrick

Authorized for release by:
8/22/2022 2:58:23 PM
Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Job ID: 500-220496-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-220496-1

Comments

No additional comments.

Receipt

The samples were received on 8/6/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 3.6° C.

GC/MS VOA

Method 8260B: The following sample was diluted due to the abundance of non-target analytes: EB-MW-2 (500-220496-4). Elevated reporting limits (RLs) are provided.

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 14-day holding time specified for preserved samples: EB-MW-6 (500-220496-7).

Method 8260B: The method blank for analytical batch 500-669702 contained several compounds above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.(MB 500-669702/6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-669712 was outside the method criteria for the following analyte(s): 4-Nitroaniline, Benzoic acid, Bis(2-chloroethyl)ether, Di-n-octyl phthalate, Hexachlorocyclopentadiene, Pentachlorophenol and Phenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample EB-MW-2 (500-220496-4) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following sample was outside control limits: EB-MW-4RR (500-220496-11). The other surrogate was within limits; therefore, re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-2

Lab Sample ID: 500-220496-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.7		2.0	0.76	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	34		2.0	0.82	ug/L	2		8260B	Total/NA
1,2,4-Trimethylbenzene	200	B	2.0	0.72	ug/L	2		8260B	Total/NA
1,3,5-Trimethylbenzene	60	B	2.0	0.51	ug/L	2		8260B	Total/NA
Benzene	30		1.0	0.29	ug/L	2		8260B	Total/NA
Chloroethane	18		2.0	1.0	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	11		2.0	0.82	ug/L	2		8260B	Total/NA
Ethylbenzene	89		1.0	0.37	ug/L	2		8260B	Total/NA
Isopropylbenzene	18		2.0	0.77	ug/L	2		8260B	Total/NA
Naphthalene	22	B	2.0	0.67	ug/L	2		8260B	Total/NA
N-Propylbenzene	28	B	2.0	0.83	ug/L	2		8260B	Total/NA
p-Isopropyltoluene	13	B	2.0	0.72	ug/L	2		8260B	Total/NA
sec-Butylbenzene	16	B	2.0	0.80	ug/L	2		8260B	Total/NA
Toluene	7.0		1.0	0.30	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.6	J	2.0	0.70	ug/L	2		8260B	Total/NA
Trichloroethene	8.4		1.0	0.33	ug/L	2		8260B	Total/NA
Vinyl chloride	7.2		2.0	0.41	ug/L	2		8260B	Total/NA
Xylenes, Total	140		2.0	0.44	ug/L	2		8260B	Total/NA
1,4-Dioxane	31	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
1-Methylnaphthalene	2.2		1.5	0.22	ug/L	1		8270D	Total/NA
2-Methylnaphthalene	0.94	J	1.5	0.048	ug/L	1		8270D	Total/NA
Acenaphthene	0.47	J		0.74	ug/L	1		8270D	Total/NA
Anthracene	0.53	J		0.74	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.56			0.15	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.57			0.15	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.79			0.15	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.21			0.15	ug/L	1		8270D	Total/NA
Chrysene	0.77			0.15	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.11	J		0.22	ug/L	1		8270D	Total/NA
Fluoranthene	1.7			0.74	ug/L	1		8270D	Total/NA
Fluorene	0.54	J		0.74	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.26			0.15	ug/L	1		8270D	Total/NA
Naphthalene	12			0.74	ug/L	1		8270D	Total/NA
Phenanthrene	1.7			0.74	ug/L	1		8270D	Total/NA
Pyrene	1.9			0.74	ug/L	1		8270D	Total/NA
PCB-1248	4.3			0.77	ug/L	2		8082A	Total/NA

Client Sample ID: EB-MW-4RR

Lab Sample ID: 500-220496-5

No Detections.

Client Sample ID: EB-MW-6

Lab Sample ID: 500-220496-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.80	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.70	J B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.60	J B	1.0	0.41	ug/L	1		8260B	Total/NA
Toluene	0.21	J	0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	0.35	J	1.0	0.22	ug/L	1		8260B	Total/NA
Benzo[a]anthracene	0.050	J	0.15	0.042	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-5

Lab Sample ID: 500-220496-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.75	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.72	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Benzo[a]anthracene	0.042	J	0.15	0.042	ug/L	1		8270D	Total/NA

Client Sample ID: EB-MW-4RR

Lab Sample ID: 500-220496-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.73	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Xylenes, Total	0.31	J	1.0	0.22	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.084	J	1.6	0.051	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.12	J	0.16	0.044	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.17		0.16	0.078	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.19		0.16	0.063	ug/L	1		8270D	Total/NA
Bis(2-ethylhexyl) phthalate	3.8	J	7.8	1.3	ug/L	1		8270D	Total/NA
Chrysene	0.18		0.16	0.053	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.094	J	0.16	0.059	ug/L	1		8270D	Total/NA
Phenanthrene	0.31	J	0.78	0.24	ug/L	1		8270D	Total/NA
Pyrene	0.38	J	0.78	0.33	ug/L	1		8270D	Total/NA

Client Sample ID: DUPLICATE 2

Lab Sample ID: 500-220496-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.74	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Styrene	0.83	J	1.0	0.39	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-220496-4	EB-MW-2	Ground Water	08/04/22 13:45	08/06/22 08:00
500-220496-5	EB-MW-4RR	Ground Water	08/04/22 14:00	08/06/22 08:00
500-220496-7	EB-MW-6	Ground Water	08/05/22 09:30	08/06/22 08:00
500-220496-8	EB-MW-5	Ground Water	08/05/22 09:45	08/06/22 08:00
500-220496-11	EB-MW-4RR	Ground Water	08/05/22 12:00	08/06/22 08:00
500-220496-12	DUPLICATE 2	Ground Water	08/05/22 00:00	08/06/22 08:00

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-2

Date Collected: 08/04/22 13:45

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-4

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			08/12/22 16:34	2
1,1,1-Trichloroethane	3.7		2.0	0.76	ug/L			08/12/22 16:34	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			08/12/22 16:34	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			08/12/22 16:34	2
1,1-Dichloroethane	34		2.0	0.82	ug/L			08/12/22 16:34	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			08/12/22 16:34	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			08/12/22 16:34	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			08/12/22 16:34	2
1,2,3-Trichloropropane	<0.83		4.0	0.83	ug/L			08/12/22 16:34	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			08/12/22 16:34	2
1,2,4-Trimethylbenzene	200 B		2.0	0.72	ug/L			08/12/22 16:34	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			08/12/22 16:34	2
1,2-Dibromoethane (EDB)	<0.77		2.0	0.77	ug/L			08/12/22 16:34	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			08/12/22 16:34	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			08/12/22 16:34	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			08/12/22 16:34	2
1,3,5-Trimethylbenzene	60 B		2.0	0.51	ug/L			08/12/22 16:34	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			08/12/22 16:34	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			08/12/22 16:34	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			08/12/22 16:34	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			08/12/22 16:34	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			08/12/22 16:34	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			08/12/22 16:34	2
Benzene	30		1.0	0.29	ug/L			08/12/22 16:34	2
Bromobenzene	<0.71		2.0	0.71	ug/L			08/12/22 16:34	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			08/12/22 16:34	2
Dichlorobromomethane	<0.74		2.0	0.74	ug/L			08/12/22 16:34	2
Bromoform	<0.97		2.0	0.97	ug/L			08/12/22 16:34	2
Bromomethane	<1.6		6.0	1.6	ug/L			08/12/22 16:34	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			08/12/22 16:34	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			08/12/22 16:34	2
Chloroethane	18		2.0	1.0	ug/L			08/12/22 16:34	2
Chloroform	<0.74		4.0	0.74	ug/L			08/12/22 16:34	2
Chloromethane	<0.64		2.0	0.64	ug/L			08/12/22 16:34	2
cis-1,2-Dichloroethene	11		2.0	0.82	ug/L			08/12/22 16:34	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			08/12/22 16:34	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			08/12/22 16:34	2
Dibromomethane	<0.54		2.0	0.54	ug/L			08/12/22 16:34	2
Dichlorodifluoromethane	<1.3		6.0	1.3	ug/L			08/12/22 16:34	2
Ethylbenzene	89		1.0	0.37	ug/L			08/12/22 16:34	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			08/12/22 16:34	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			08/12/22 16:34	2
Isopropylbenzene	18		2.0	0.77	ug/L			08/12/22 16:34	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			08/12/22 16:34	2
Methylene Chloride	<3.3		10	3.3	ug/L			08/12/22 16:34	2
Naphthalene	22 B		2.0	0.67	ug/L			08/12/22 16:34	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			08/12/22 16:34	2
N-Propylbenzene	28 B		2.0	0.83	ug/L			08/12/22 16:34	2
p-Isopropyltoluene	13 B		2.0	0.72	ug/L			08/12/22 16:34	2

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-2

Date Collected: 08/04/22 13:45

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-4

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	16	B	2.0	0.80	ug/L			08/12/22 16:34	2
Styrene	<0.77		2.0	0.77	ug/L			08/12/22 16:34	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			08/12/22 16:34	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			08/12/22 16:34	2
Toluene	7.0		1.0	0.30	ug/L			08/12/22 16:34	2
trans-1,2-Dichloroethene	1.6	J	2.0	0.70	ug/L			08/12/22 16:34	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			08/12/22 16:34	2
Trichloroethene	8.4		1.0	0.33	ug/L			08/12/22 16:34	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			08/12/22 16:34	2
Vinyl chloride	7.2		2.0	0.41	ug/L			08/12/22 16:34	2
Xylenes, Total	140		2.0	0.44	ug/L			08/12/22 16:34	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 126					08/12/22 16:34	2
4-Bromofluorobenzene (Surr)	90		72 - 124					08/12/22 16:34	2
Dibromofluoromethane (Surr)	94		75 - 120					08/12/22 16:34	2
Toluene-d8 (Surr)	92		75 - 120					08/12/22 16:34	2

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	31	E	0.20	0.10	ug/L		08/09/22 15:53	08/12/22 19:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	46		15 - 110				08/09/22 15:53	08/12/22 19:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	2.2		1.5	0.22	ug/L		08/10/22 07:53	08/12/22 12:22	1
2-Methylnaphthalene	0.94	J	1.5	0.048	ug/L		08/10/22 07:53	08/12/22 12:22	1
Acenaphthene	0.47	J	0.74	0.23	ug/L		08/10/22 07:53	08/12/22 12:22	1
Acenaphthylene	<0.20		0.74	0.20	ug/L		08/10/22 07:53	08/12/22 12:22	1
Anthracene	0.53	J	0.74	0.25	ug/L		08/10/22 07:53	08/12/22 12:22	1
Benzo[a]anthracene	0.56		0.15	0.042	ug/L		08/10/22 07:53	08/12/22 12:22	1
Benzo[a]pyrene	0.57		0.15	0.073	ug/L		08/10/22 07:53	08/12/22 12:22	1
Benzo[b]fluoranthene	0.79		0.15	0.060	ug/L		08/10/22 07:53	08/12/22 12:22	1
Benzo[g,h,i]perylene	<0.28		0.74	0.28	ug/L		08/10/22 07:53	08/12/22 12:22	1
Benzo[k]fluoranthene	0.21		0.15	0.047	ug/L		08/10/22 07:53	08/12/22 12:22	1
Chrysene	0.77		0.15	0.050	ug/L		08/10/22 07:53	08/12/22 12:22	1
Dibenz(a,h)anthracene	0.11	J	0.22	0.038	ug/L		08/10/22 07:53	08/12/22 12:22	1
Fluoranthene	1.7		0.74	0.34	ug/L		08/10/22 07:53	08/12/22 12:22	1
Fluorene	0.54	J	0.74	0.18	ug/L		08/10/22 07:53	08/12/22 12:22	1
Indeno[1,2,3-cd]pyrene	0.26		0.15	0.055	ug/L		08/10/22 07:53	08/12/22 12:22	1
Naphthalene	12		0.74	0.23	ug/L		08/10/22 07:53	08/12/22 12:22	1
Phenanthrene	1.7		0.74	0.22	ug/L		08/10/22 07:53	08/12/22 12:22	1
Pyrene	1.9		0.74	0.32	ug/L		08/10/22 07:53	08/12/22 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		34 - 110				08/10/22 07:53	08/12/22 12:22	1
Nitrobenzene-d5 (Surr)	54		36 - 120				08/10/22 07:53	08/12/22 12:22	1
Terphenyl-d14 (Surr)	69		40 - 145				08/10/22 07:53	08/12/22 12:22	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-2

Lab Sample ID: 500-220496-4

Date Collected: 08/04/22 13:45

Matrix: Ground Water

Date Received: 08/06/22 08:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.13		0.77	0.13	ug/L		08/11/22 13:32	08/17/22 08:16	2
PCB-1221	<0.38		0.77	0.38	ug/L		08/11/22 13:32	08/17/22 08:16	2
PCB-1232	<0.38		0.77	0.38	ug/L		08/11/22 13:32	08/17/22 08:16	2
PCB-1242	<0.38		0.77	0.38	ug/L		08/11/22 13:32	08/17/22 08:16	2
PCB-1248	4.3		0.77	0.38	ug/L		08/11/22 13:32	08/17/22 08:16	2
PCB-1254	<0.38		0.77	0.38	ug/L		08/11/22 13:32	08/17/22 08:16	2
PCB-1260	<0.13		0.77	0.13	ug/L		08/11/22 13:32	08/17/22 08:16	2
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69			30 - 120			08/11/22 13:32	08/17/22 08:16	2
DCB Decachlorobiphenyl	39			30 - 140			08/11/22 13:32	08/17/22 08:16	2

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-4RR
Date Collected: 08/04/22 14:00
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-5
Matrix: Ground Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.10		0.20	0.10	ug/L		08/09/22 15:53	08/12/22 20:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	46		15 - 110				08/09/22 15:53	08/12/22 20:10	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-6

Date Collected: 08/05/22 09:30

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-7

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/12/22 17:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 17:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 17:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 17:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 17:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 17:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 17:27	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 17:27	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 17:27	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 17:27	1
1,2,4-Trimethylbenzene	0.80	J B	1.0	0.36	ug/L			08/12/22 17:27	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 17:27	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 17:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 17:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 17:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 17:27	1
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L			08/12/22 17:27	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 17:27	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 17:27	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 17:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 17:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 17:27	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 17:27	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 17:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 17:27	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 17:27	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 17:27	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 17:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 17:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 17:27	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 17:27	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 17:27	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 17:27	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 17:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 17:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 17:27	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 17:27	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 17:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 17:27	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 17:27	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 17:27	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 17:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 17:27	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 17:27	1
Naphthalene	0.70	J B	1.0	0.34	ug/L			08/12/22 17:27	1
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L			08/12/22 17:27	1
N-Propylbenzene	0.60	J B	1.0	0.41	ug/L			08/12/22 17:27	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 17:27	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-6

Date Collected: 08/05/22 09:30

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-7

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:27	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 17:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:27	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 17:27	1
Toluene	0.21 J		0.50	0.15	ug/L			08/12/22 17:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 17:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 17:27	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 17:27	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 17:27	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 17:27	1
Xylenes, Total	0.35 J		1.0	0.22	ug/L			08/12/22 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		08/12/22 17:27	1
4-Bromofluorobenzene (Surr)	99		72 - 124		08/12/22 17:27	1
Dibromofluoromethane (Surr)	103		75 - 120		08/12/22 17:27	1
Toluene-d8 (Surr)	92		75 - 120		08/12/22 17:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.22		1.5	0.22	ug/L		08/10/22 07:53	08/12/22 12:46	1
2-Methylnaphthalene	<0.048		1.5	0.048	ug/L		08/10/22 07:53	08/12/22 12:46	1
Acenaphthene	<0.23		0.74	0.23	ug/L		08/10/22 07:53	08/12/22 12:46	1
Acenaphthylene	<0.20		0.74	0.20	ug/L		08/10/22 07:53	08/12/22 12:46	1
Anthracene	<0.25		0.74	0.25	ug/L		08/10/22 07:53	08/12/22 12:46	1
Benzo[a]anthracene	0.050 J		0.15	0.042	ug/L		08/10/22 07:53	08/12/22 12:46	1
Benzo[a]pyrene	<0.073		0.15	0.073	ug/L		08/10/22 07:53	08/12/22 12:46	1
Benzo[b]fluoranthene	<0.060		0.15	0.060	ug/L		08/10/22 07:53	08/12/22 12:46	1
Benzo[g,h,i]perylene	<0.28		0.74	0.28	ug/L		08/10/22 07:53	08/12/22 12:46	1
Benzo[k]fluoranthene	<0.047		0.15	0.047	ug/L		08/10/22 07:53	08/12/22 12:46	1
Chrysene	<0.051		0.15	0.051	ug/L		08/10/22 07:53	08/12/22 12:46	1
Dibenz(a,h)anthracene	<0.038		0.22	0.038	ug/L		08/10/22 07:53	08/12/22 12:46	1
Fluoranthene	<0.34		0.74	0.34	ug/L		08/10/22 07:53	08/12/22 12:46	1
Fluorene	<0.18		0.74	0.18	ug/L		08/10/22 07:53	08/12/22 12:46	1
Indeno[1,2,3-cd]pyrene	<0.055		0.15	0.055	ug/L		08/10/22 07:53	08/12/22 12:46	1
Naphthalene	<0.23		0.74	0.23	ug/L		08/10/22 07:53	08/12/22 12:46	1
Phenanthrene	<0.22		0.74	0.22	ug/L		08/10/22 07:53	08/12/22 12:46	1
Pyrene	<0.32		0.74	0.32	ug/L		08/10/22 07:53	08/12/22 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		34 - 110		08/10/22 07:53	08/12/22 12:46
Nitrobenzene-d5 (Surr)	64		36 - 120		08/10/22 07:53	08/12/22 12:46
Terphenyl-d14 (Surr)	105		40 - 145		08/10/22 07:53	08/12/22 12:46

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.062		0.37	0.062	ug/L		08/18/22 08:52	08/18/22 17:13	1
PCB-1221	<0.19		0.37	0.19	ug/L		08/18/22 08:52	08/18/22 17:13	1
PCB-1232	<0.19		0.37	0.19	ug/L		08/18/22 08:52	08/18/22 17:13	1
PCB-1242	<0.19		0.37	0.19	ug/L		08/18/22 08:52	08/18/22 17:13	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-6

Lab Sample ID: 500-220496-7

Date Collected: 08/05/22 09:30

Matrix: Ground Water

Date Received: 08/06/22 08:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.19		0.37	0.19	ug/L		08/18/22 08:52	08/18/22 17:13	1
PCB-1254	<0.19		0.37	0.19	ug/L		08/18/22 08:52	08/18/22 17:13	1
PCB-1260	<0.065		0.37	0.065	ug/L		08/18/22 08:52	08/18/22 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	47		30 - 120				08/18/22 08:52	08/18/22 17:13	1
DCB Decachlorobiphenyl	58		30 - 140				08/18/22 08:52	08/18/22 17:13	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-5

Date Collected: 08/05/22 09:45

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-8

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/12/22 17:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 17:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 17:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 17:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 17:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 17:54	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 17:54	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 17:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 17:54	1
1,2,4-Trimethylbenzene	0.75 JB		1.0	0.36	ug/L			08/12/22 17:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 17:54	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 17:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 17:54	1
1,3,5-Trimethylbenzene	0.78 JB		1.0	0.25	ug/L			08/12/22 17:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 17:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 17:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 17:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 17:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 17:54	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 17:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 17:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 17:54	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 17:54	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 17:54	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 17:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 17:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 17:54	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 17:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 17:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 17:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 17:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 17:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 17:54	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 17:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 17:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 17:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 17:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 17:54	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 17:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 17:54	1
p-Isopropyltoluene	0.72 JB		1.0	0.36	ug/L			08/12/22 17:54	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-5

Date Collected: 08/05/22 09:45
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-8

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:54	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 17:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:54	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 17:54	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 17:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 17:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 17:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 17:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 17:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 17:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/12/22 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126		08/12/22 17:54	1
4-Bromofluorobenzene (Surr)	98		72 - 124		08/12/22 17:54	1
Dibromofluoromethane (Surr)	104		75 - 120		08/12/22 17:54	1
Toluene-d8 (Surr)	91		75 - 120		08/12/22 17:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.22		1.5	0.22	ug/L		08/10/22 07:53	08/12/22 13:10	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		08/10/22 07:53	08/12/22 13:10	1
Acenaphthene	<0.23		0.75	0.23	ug/L		08/10/22 07:53	08/12/22 13:10	1
Acenaphthylene	<0.20		0.75	0.20	ug/L		08/10/22 07:53	08/12/22 13:10	1
Anthracene	<0.25		0.75	0.25	ug/L		08/10/22 07:53	08/12/22 13:10	1
Benzo[a]anthracene	0.042 J		0.15	0.042	ug/L		08/10/22 07:53	08/12/22 13:10	1
Benzo[a]pyrene	<0.074		0.15	0.074	ug/L		08/10/22 07:53	08/12/22 13:10	1
Benzo[b]fluoranthene	<0.060		0.15	0.060	ug/L		08/10/22 07:53	08/12/22 13:10	1
Benzo[g,h,i]perylene	<0.28		0.75	0.28	ug/L		08/10/22 07:53	08/12/22 13:10	1
Benzo[k]fluoranthene	<0.048		0.15	0.048	ug/L		08/10/22 07:53	08/12/22 13:10	1
Chrysene	<0.051		0.15	0.051	ug/L		08/10/22 07:53	08/12/22 13:10	1
Dibenz(a,h)anthracene	<0.038		0.22	0.038	ug/L		08/10/22 07:53	08/12/22 13:10	1
Fluoranthene	<0.34		0.75	0.34	ug/L		08/10/22 07:53	08/12/22 13:10	1
Fluorene	<0.18		0.75	0.18	ug/L		08/10/22 07:53	08/12/22 13:10	1
Indeno[1,2,3-cd]pyrene	<0.056		0.15	0.056	ug/L		08/10/22 07:53	08/12/22 13:10	1
Naphthalene	<0.23		0.75	0.23	ug/L		08/10/22 07:53	08/12/22 13:10	1
Phenanthrene	<0.22		0.75	0.22	ug/L		08/10/22 07:53	08/12/22 13:10	1
Pyrene	<0.32		0.75	0.32	ug/L		08/10/22 07:53	08/12/22 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		34 - 110		08/10/22 07:53	08/12/22 13:10
Nitrobenzene-d5 (Surr)	61		36 - 120		08/10/22 07:53	08/12/22 13:10
Terphenyl-d14 (Surr)	80		40 - 145		08/10/22 07:53	08/12/22 13:10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.062		0.37	0.062	ug/L		08/11/22 13:32	08/16/22 12:01	1
PCB-1221	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:01	1
PCB-1232	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:01	1
PCB-1242	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:01	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-5

Lab Sample ID: 500-220496-8

Date Collected: 08/05/22 09:45

Matrix: Ground Water

Date Received: 08/06/22 08:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:01	1
PCB-1254	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:01	1
PCB-1260	<0.065		0.37	0.065	ug/L		08/11/22 13:32	08/16/22 12:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		30 - 120				08/11/22 13:32	08/16/22 12:01	1
DCB Decachlorobiphenyl	40		30 - 140				08/11/22 13:32	08/16/22 12:01	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-4RR

Date Collected: 08/05/22 12:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-11

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/12/22 19:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 19:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 19:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 19:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 19:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 19:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 19:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 19:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 19:14	1
1,2,4-Trimethylbenzene	0.73 JB		1.0	0.36	ug/L			08/12/22 19:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 19:14	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 19:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 19:14	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/12/22 19:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 19:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 19:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 19:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 19:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 19:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 19:14	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 19:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 19:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 19:14	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 19:14	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 19:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 19:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 19:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 19:14	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 19:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 19:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 19:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 19:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 19:14	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 19:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 19:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 19:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 19:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 19:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 19:14	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 19:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 19:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 19:14	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-4RR

Date Collected: 08/05/22 12:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-11

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 19:14	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 19:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 19:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 19:14	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 19:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 19:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 19:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 19:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 19:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 19:14	1
Xylenes, Total	0.31	J	1.0	0.22	ug/L			08/12/22 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		08/12/22 19:14	1
4-Bromofluorobenzene (Surr)	99		72 - 124		08/12/22 19:14	1
Dibromofluoromethane (Surr)	106		75 - 120		08/12/22 19:14	1
Toluene-d8 (Surr)	91		75 - 120		08/12/22 19:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		1.6	0.19	ug/L		08/10/22 07:53	08/12/22 16:14	1
1,2-Dichlorobenzene	<0.19		1.6	0.19	ug/L		08/10/22 07:53	08/12/22 16:14	1
1,3-Dichlorobenzene	<0.16		1.6	0.16	ug/L		08/10/22 07:53	08/12/22 16:14	1
1,4-Dichlorobenzene	<0.16		1.6	0.16	ug/L		08/10/22 07:53	08/12/22 16:14	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,4,5-Trichlorophenol	<2.0		7.8	2.0	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,4,6-Trichlorophenol	<0.56		3.9	0.56	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,4-Dichlorophenol	<2.0		7.8	2.0	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,4-Dimethylphenol	<1.4		7.8	1.4	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,4-Dinitrophenol	<6.7		16	6.7	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,4-Dinitrotoluene	<0.19		0.78	0.19	ug/L		08/10/22 07:53	08/12/22 16:14	1
2,6-Dinitrotoluene	<0.058		0.78	0.058	ug/L		08/10/22 07:53	08/12/22 16:14	1
2-Chloronaphthalene	<0.18		1.6	0.18	ug/L		08/10/22 07:53	08/12/22 16:14	1
2-Chlorophenol	<0.44		3.9	0.44	ug/L		08/10/22 07:53	08/12/22 16:14	1
2-Methylnaphthalene	0.084	J	1.6	0.051	ug/L		08/10/22 07:53	08/12/22 16:14	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		08/10/22 07:53	08/12/22 16:14	1
2-Nitroaniline	<1.0		3.9	1.0	ug/L		08/10/22 07:53	08/12/22 16:14	1
2-Nitrophenol	<2.0		7.8	2.0	ug/L		08/10/22 07:53	08/12/22 16:14	1
3 & 4 Methylphenol	<0.35		1.6	0.35	ug/L		08/10/22 07:53	08/12/22 16:14	1
3,3'-Dichlorobenzidine	<1.3		3.9	1.3	ug/L		08/10/22 07:53	08/12/22 16:14	1
3-Nitroaniline	<1.4		7.8	1.4	ug/L		08/10/22 07:53	08/12/22 16:14	1
4,6-Dinitro-2-methylphenol	<4.6		16	4.6	ug/L		08/10/22 07:53	08/12/22 16:14	1
4-Bromophenyl phenyl ether	<0.42		3.9	0.42	ug/L		08/10/22 07:53	08/12/22 16:14	1
4-Chloro-3-methylphenol	<1.8		7.8	1.8	ug/L		08/10/22 07:53	08/12/22 16:14	1
4-Chloroaniline	<1.6		7.8	1.6	ug/L		08/10/22 07:53	08/12/22 16:14	1
4-Chlorophenyl phenyl ether	<0.50		3.9	0.50	ug/L		08/10/22 07:53	08/12/22 16:14	1
4-Nitroaniline	<1.3		7.8	1.3	ug/L		08/10/22 07:53	08/12/22 16:14	1
4-Nitrophenol	<5.8		16	5.8	ug/L		08/10/22 07:53	08/12/22 16:14	1
Acenaphthene	<0.24		0.78	0.24	ug/L		08/10/22 07:53	08/12/22 16:14	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-4RR

Date Collected: 08/05/22 12:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-11

Matrix: Ground Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.21		0.78	0.21	ug/L		08/10/22 07:53	08/12/22 16:14	1
Anthracene	<0.26		0.78	0.26	ug/L		08/10/22 07:53	08/12/22 16:14	1
Benzo[a]anthracene	0.12 J		0.16	0.044	ug/L		08/10/22 07:53	08/12/22 16:14	1
Benzo[a]pyrene	0.17		0.16	0.078	ug/L		08/10/22 07:53	08/12/22 16:14	1
Benzo[b]fluoranthene	0.19		0.16	0.063	ug/L		08/10/22 07:53	08/12/22 16:14	1
Benzo[g,h,i]perylene	<0.29		0.78	0.29	ug/L		08/10/22 07:53	08/12/22 16:14	1
Benzo[k]fluoranthene	<0.050		0.16	0.050	ug/L		08/10/22 07:53	08/12/22 16:14	1
Benzoic acid	<4.5		16	4.5	ug/L		08/10/22 07:53	08/12/22 16:14	1
Benzyl alcohol	<4.7		16	4.7	ug/L		08/10/22 07:53	08/12/22 16:14	1
Bis(2-chloroethoxy)methane	<0.22		1.6	0.22	ug/L		08/10/22 07:53	08/12/22 16:14	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		08/10/22 07:53	08/12/22 16:14	1
Bis(2-ethylhexyl) phthalate	3.8 J		7.8	1.3	ug/L		08/10/22 07:53	08/12/22 16:14	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		08/10/22 07:53	08/12/22 16:14	1
Carbazole	<0.28		3.9	0.28	ug/L		08/10/22 07:53	08/12/22 16:14	1
Chrysene	0.18		0.16	0.053	ug/L		08/10/22 07:53	08/12/22 16:14	1
Dibenz(a,h)anthracene	<0.040		0.24	0.040	ug/L		08/10/22 07:53	08/12/22 16:14	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		08/10/22 07:53	08/12/22 16:14	1
Diethyl phthalate	<0.28		3.9	0.28	ug/L		08/10/22 07:53	08/12/22 16:14	1
Dimethyl phthalate	<0.25		3.9	0.25	ug/L		08/10/22 07:53	08/12/22 16:14	1
Di-n-butyl phthalate	<0.57		3.9	0.57	ug/L		08/10/22 07:53	08/12/22 16:14	1
Di-n-octyl phthalate	<0.82		7.8	0.82	ug/L		08/10/22 07:53	08/12/22 16:14	1
Fluoranthene	<0.36		0.78	0.36	ug/L		08/10/22 07:53	08/12/22 16:14	1
Fluorene	<0.19		0.78	0.19	ug/L		08/10/22 07:53	08/12/22 16:14	1
Hexachlorobenzene	<0.062		0.39	0.062	ug/L		08/10/22 07:53	08/12/22 16:14	1
Hexachlorobutadiene	<0.40		3.9	0.40	ug/L		08/10/22 07:53	08/12/22 16:14	1
Hexachlorocyclopentadiene	<5.0		16	5.0	ug/L		08/10/22 07:53	08/12/22 16:14	1
Hexachloroethane	<0.47		3.9	0.47	ug/L		08/10/22 07:53	08/12/22 16:14	1
Indeno[1,2,3-cd]pyrene	0.094 J		0.16	0.059	ug/L		08/10/22 07:53	08/12/22 16:14	1
Isophorone	<0.29		1.6	0.29	ug/L		08/10/22 07:53	08/12/22 16:14	1
Naphthalene	<0.24		0.78	0.24	ug/L		08/10/22 07:53	08/12/22 16:14	1
Nitrobenzene	<0.35		0.78	0.35	ug/L		08/10/22 07:53	08/12/22 16:14	1
N-Nitrosodi-n-propylamine	<0.12		0.39	0.12	ug/L		08/10/22 07:53	08/12/22 16:14	1
N-Nitrosodiphenylamine	<0.29		1.6	0.29	ug/L		08/10/22 07:53	08/12/22 16:14	1
Pentachlorophenol	<3.1		16	3.1	ug/L		08/10/22 07:53	08/12/22 16:14	1
Phenanthrene	0.31 J		0.78	0.24	ug/L		08/10/22 07:53	08/12/22 16:14	1
Phenol	<0.53		3.9	0.53	ug/L		08/10/22 07:53	08/12/22 16:14	1
Pyrene	0.38 J		0.78	0.33	ug/L		08/10/22 07:53	08/12/22 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	50		40 - 145			
2-Fluorobiphenyl (Surr)	54		34 - 110			
2-Fluorophenol (Surr)	47		27 - 110			
Nitrobenzene-d5 (Surr)	45		36 - 120			
Phenol-d5 (Surr)	33		20 - 110			
Terphenyl-d14 (Surr)	71		40 - 145			

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.065		0.39	0.065	ug/L		08/11/22 13:32	08/16/22 12:49	1
PCB-1221	<0.19		0.39	0.19	ug/L		08/11/22 13:32	08/16/22 12:49	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-4RR
Date Collected: 08/05/22 12:00
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-11
Matrix: Ground Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.39	0.19	ug/L		08/11/22 13:32	08/16/22 12:49	1
PCB-1242	<0.19		0.39	0.19	ug/L		08/11/22 13:32	08/16/22 12:49	1
PCB-1248	<0.19		0.39	0.19	ug/L		08/11/22 13:32	08/16/22 12:49	1
PCB-1254	<0.19		0.39	0.19	ug/L		08/11/22 13:32	08/16/22 12:49	1
PCB-1260	<0.068		0.39	0.068	ug/L		08/11/22 13:32	08/16/22 12:49	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	40			30 - 120			08/11/22 13:32	08/16/22 12:49	1
DCB Decachlorobiphenyl	27	S1-		30 - 140			08/11/22 13:32	08/16/22 12:49	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: DUPLICATE 2

Date Collected: 08/05/22 00:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-12

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/12/22 19:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 19:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 19:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 19:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 19:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 19:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 19:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 19:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 19:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 19:41	1
1,2,4-Trimethylbenzene	0.74 JB		1.0	0.36	ug/L			08/12/22 19:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 19:41	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 19:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 19:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 19:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 19:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/12/22 19:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 19:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 19:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 19:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 19:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 19:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 19:41	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 19:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 19:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 19:41	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 19:41	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 19:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 19:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 19:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 19:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 19:41	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 19:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 19:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 19:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 19:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 19:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 19:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 19:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 19:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 19:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 19:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 19:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 19:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 19:41	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 19:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 19:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 19:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 19:41	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: DUPLICATE 2

Date Collected: 08/05/22 00:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-12

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 19:41	1
Styrene	0.83 J		1.0	0.39	ug/L			08/12/22 19:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 19:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 19:41	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 19:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 19:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 19:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 19:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 19:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 19:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/12/22 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		08/12/22 19:41	1
4-Bromofluorobenzene (Surr)	96		72 - 124		08/12/22 19:41	1
Dibromofluoromethane (Surr)	107		75 - 120		08/12/22 19:41	1
Toluene-d8 (Surr)	90		75 - 120		08/12/22 19:41	1

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

GC/MS VOA

Analysis Batch: 669702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-4	EB-MW-2	Total/NA	Ground Water	8260B	
500-220496-7	EB-MW-6	Total/NA	Ground Water	8260B	
500-220496-8	EB-MW-5	Total/NA	Ground Water	8260B	
500-220496-11	EB-MW-4RR	Total/NA	Ground Water	8260B	
500-220496-12	DUPLICATE 2	Total/NA	Ground Water	8260B	
MB 500-669702/6	Method Blank	Total/NA	Water	8260B	
LCS 500-669702/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 636742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-4	EB-MW-2	Total/NA	Ground Water	3510C	
500-220496-5	EB-MW-4RR	Total/NA	Ground Water	3510C	
MB 480-636742/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-636742/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-636742/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 637259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-4	EB-MW-2	Total/NA	Ground Water	8270D SIM ID	
500-220496-5	EB-MW-4RR	Total/NA	Ground Water	8270D SIM ID	
MB 480-636742/1-A	Method Blank	Total/NA	Water	8270D SIM ID	
LCS 480-636742/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	
LCSD 480-636742/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	

Prep Batch: 669248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-4	EB-MW-2	Total/NA	Ground Water	3510C	
500-220496-7	EB-MW-6	Total/NA	Ground Water	3510C	
500-220496-8	EB-MW-5	Total/NA	Ground Water	3510C	
500-220496-11	EB-MW-4RR	Total/NA	Ground Water	3510C	
MB 500-669248/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-669248/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-669248/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 669712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-4	EB-MW-2	Total/NA	Ground Water	8270D	
500-220496-7	EB-MW-6	Total/NA	Ground Water	8270D	
500-220496-8	EB-MW-5	Total/NA	Ground Water	8270D	
500-220496-11	EB-MW-4RR	Total/NA	Ground Water	8270D	
MB 500-669248/1-A	Method Blank	Total/NA	Water	8270D	
LCS 500-669248/2-A	Lab Control Sample	Total/NA	Water	8270D	
LCSD 500-669248/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	

GC Semi VOA

Prep Batch: 669586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-4	EB-MW-2	Total/NA	Ground Water	3510C	
500-220496-8	EB-MW-5	Total/NA	Ground Water	3510C	

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QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

GC Semi VOA (Continued)

Prep Batch: 669586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-11	EB-MW-4RR	Total/NA	Ground Water	3510C	
MB 500-669586/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-669586/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-669586/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 670133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-8	EB-MW-5	Total/NA	Ground Water	8082A	669586
500-220496-11	EB-MW-4RR	Total/NA	Ground Water	8082A	669586
MB 500-669586/1-A	Method Blank	Total/NA	Water	8082A	669586
LCS 500-669586/2-A	Lab Control Sample	Total/NA	Water	8082A	669586
LCSD 500-669586/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	669586

Analysis Batch: 670358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-4	EB-MW-2	Total/NA	Ground Water	8082A	669586

Prep Batch: 670637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-7	EB-MW-6	Total/NA	Ground Water	3510C	
MB 500-670637/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-670637/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-670637/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 670742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-7	EB-MW-6	Total/NA	Ground Water	8082A	670637
MB 500-670637/1-A	Method Blank	Total/NA	Water	8082A	670637
LCS 500-670637/4-A	Lab Control Sample	Total/NA	Water	8082A	670637
LCSD 500-670637/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	670637

Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-220496-4	EB-MW-2	87	90	94	92
500-220496-7	EB-MW-6	94	99	103	92
500-220496-8	EB-MW-5	97	98	104	91
500-220496-11	EB-MW-4RR	98	99	106	91
500-220496-12	DUPLICATE 2	100	96	107	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
LCS 500-669702/4	Lab Control Sample	84	97	93	94
MB 500-669702/6	Method Blank	94	98	103	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-110)	TPHL (40-145)
500-220496-4	EB-MW-2		57		54		69
500-220496-7	EB-MW-6		77		64		105
500-220496-8	EB-MW-5		74		61		80
500-220496-11	EB-MW-4RR	50	54	47	45	33	71

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

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Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-110)	TPHL (40-145)
LCS 500-669248/2-A	Lab Control Sample	79	83	76	73	56	106
LCSD 500-669248/3-A	Lab Control Sample Dup	83	89	79	78	57	109
MB 500-669248/1-A	Method Blank	81	96	84	79	45	128

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		TCX2 (30-120)	DCBP2 (30-140)						
500-220496-4	EB-MW-2	69	39						
500-220496-7	EB-MW-6	47	58						
500-220496-8	EB-MW-5	63	40						
500-220496-11	EB-MW-4RR	40	27 S1-						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		TCX2 (30-120)	DCBP2 (30-140)						
LCS 500-669586/2-A	Lab Control Sample	58	93						
LCS 500-670637/4-A	Lab Control Sample	69	93						
LCSD 500-669586/3-A	Lab Control Sample Dup	65	106						
LCSD 500-670637/5-A	Lab Control Sample Dup	71	90						
MB 500-669586/1-A	Method Blank	77	102						
MB 500-670637/1-A	Method Blank	65	90						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-669702/6

Matrix: Water

Analysis Batch: 669702

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			08/12/22 10:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 10:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 10:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 10:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 10:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 10:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 10:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 10:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 10:35	1
1,2,4-Trimethylbenzene	0.752 J		1.0	0.36	ug/L			08/12/22 10:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 10:35	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 10:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 10:35	1
1,3,5-Trimethylbenzene	0.791 J		1.0	0.25	ug/L			08/12/22 10:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 10:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 10:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 10:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 10:35	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 10:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 10:35	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 10:35	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 10:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 10:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 10:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 10:35	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 10:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 10:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 10:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 10:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 10:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 10:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 10:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 10:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 10:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 10:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 10:35	1
Naphthalene	0.854 J		1.0	0.34	ug/L			08/12/22 10:35	1
n-Butylbenzene	0.657 J		1.0	0.39	ug/L			08/12/22 10:35	1
N-Propylbenzene	0.632 J		1.0	0.41	ug/L			08/12/22 10:35	1

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-669702/6

Matrix: Water

Analysis Batch: 669702

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	0.753	J	1.0	0.36	ug/L			08/12/22 10:35	1
sec-Butylbenzene	0.655	J	1.0	0.40	ug/L			08/12/22 10:35	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
tert-Butylbenzene	0.663	J	1.0	0.40	ug/L			08/12/22 10:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 10:35	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 10:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 10:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 10:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 10:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 10:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/12/22 10:35	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		08/12/22 10:35	1
4-Bromofluorobenzene (Surr)	98		72 - 124		08/12/22 10:35	1
Dibromofluoromethane (Surr)	103		75 - 120		08/12/22 10:35	1
Toluene-d8 (Surr)	92		75 - 120		08/12/22 10:35	1

Lab Sample ID: LCS 500-669702/4

Matrix: Water

Analysis Batch: 669702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	40.0	43.1		ug/L		108	70 - 125
1,1,1-Trichloroethane	40.0	41.6		ug/L		104	70 - 125
1,1,2,2-Tetrachloroethane	40.0	36.6		ug/L		91	62 - 140
1,1,2-Trichloroethane	40.0	39.1		ug/L		98	71 - 130
1,1-Dichloroethane	40.0	40.1		ug/L		100	70 - 125
1,1-Dichloroethene	40.0	41.0		ug/L		102	67 - 122
1,1-Dichloropropene	40.0	41.7		ug/L		104	70 - 121
1,2,3-Trichlorobenzene	40.0	46.6		ug/L		116	51 - 145
1,2,3-Trichloropropane	40.0	37.1		ug/L		93	50 - 133
1,2,4-Trichlorobenzene	40.0	47.5		ug/L		119	57 - 137
1,2,4-Trimethylbenzene	40.0	41.2		ug/L		103	70 - 123
1,2-Dibromo-3-Chloropropane	40.0	34.1		ug/L		85	56 - 123
1,2-Dibromoethane (EDB)	40.0	37.4		ug/L		94	70 - 125
1,2-Dichlorobenzene	40.0	46.6		ug/L		116	70 - 125
1,2-Dichloroethane	40.0	39.2		ug/L		98	68 - 127
1,2-Dichloropropene	40.0	41.1		ug/L		103	67 - 130
1,3,5-Trimethylbenzene	40.0	41.0		ug/L		102	70 - 123
1,3-Dichlorobenzene	40.0	47.6		ug/L		119	70 - 125
1,3-Dichloropropane	40.0	38.1		ug/L		95	62 - 136
1,4-Dichlorobenzene	40.0	44.9		ug/L		112	70 - 120
2,2-Dichloropropane	40.0	41.3		ug/L		103	58 - 139
2-Chlorotoluene	40.0	44.2		ug/L		111	70 - 125
4-Chlorotoluene	40.0	44.7		ug/L		112	68 - 124
Benzene	40.0	40.2		ug/L		100	70 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-669702/4

Matrix: Water

Analysis Batch: 669702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Bromobenzene	40.0	48.2		ug/L	120	70 - 122	
Bromochloromethane	40.0	41.4		ug/L	103	65 - 122	
Dichlorobromomethane	40.0	41.0		ug/L	103	69 - 120	
Bromoform	40.0	43.3		ug/L	108	56 - 132	
Bromomethane	40.0	41.7		ug/L	104	40 - 152	
Carbon tetrachloride	40.0	40.4		ug/L	101	59 - 133	
Chlorobenzene	40.0	43.4		ug/L	108	70 - 120	
Chloroethane	40.0	44.8		ug/L	112	48 - 136	
Chloroform	40.0	38.6		ug/L	97	70 - 120	
Chloromethane	40.0	44.1		ug/L	110	56 - 152	
cis-1,2-Dichloroethene	40.0	41.6		ug/L	104	70 - 125	
cis-1,3-Dichloropropene	40.0	34.6		ug/L	87	64 - 127	
Dibromochloromethane	40.0	41.5		ug/L	104	68 - 125	
Dibromomethane	40.0	38.3		ug/L	96	70 - 120	
Dichlorodifluoromethane	40.0	39.3		ug/L	98	40 - 159	
Ethylbenzene	40.0	45.1		ug/L	113	70 - 123	
Hexachlorobutadiene	40.0	56.2		ug/L	141	51 - 150	
Isopropylbenzene	40.0	40.1		ug/L	100	70 - 126	
Methyl tert-butyl ether	40.0	31.9		ug/L	80	55 - 123	
Methylene Chloride	40.0	37.9		ug/L	95	69 - 125	
Naphthalene	40.0	36.0		ug/L	90	53 - 144	
n-Butylbenzene	40.0	39.7		ug/L	99	68 - 125	
N-Propylbenzene	40.0	40.2		ug/L	100	69 - 127	
p-Isopropyltoluene	40.0	41.7		ug/L	104	70 - 125	
sec-Butylbenzene	40.0	40.8		ug/L	102	70 - 123	
Styrene	40.0	40.4		ug/L	101	70 - 120	
tert-Butylbenzene	40.0	41.4		ug/L	103	70 - 121	
Tetrachloroethene	40.0	48.4		ug/L	121	70 - 128	
Toluene	40.0	43.4		ug/L	108	70 - 125	
trans-1,2-Dichloroethene	40.0	41.6		ug/L	104	70 - 125	
trans-1,3-Dichloropropene	40.0	34.4		ug/L	86	62 - 128	
Trichloroethene	40.0	45.3		ug/L	113	70 - 125	
Trichlorofluoromethane	40.0	41.2		ug/L	103	55 - 128	
Vinyl chloride	40.0	43.5		ug/L	109	64 - 126	
Xylenes, Total	80.0	82.3		ug/L	103	70 - 125	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		75 - 126
4-Bromofluorobenzene (Surr)	97		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
Toluene-d8 (Surr)	94		75 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-669248/1-A

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		1.6	0.19	ug/L		08/10/22 07:53	08/12/22 11:11	1
1,2-Dichlorobenzene	<0.20		1.6	0.20	ug/L		08/10/22 07:53	08/12/22 11:11	1
1,3-Dichlorobenzene	<0.17		1.6	0.17	ug/L		08/10/22 07:53	08/12/22 11:11	1
1,4-Dichlorobenzene	<0.17		1.6	0.17	ug/L		08/10/22 07:53	08/12/22 11:11	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L		08/10/22 07:53	08/12/22 11:11	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L		08/10/22 07:53	08/12/22 11:11	1
2-Chloronaphthalene	<0.19		1.6	0.19	ug/L		08/10/22 07:53	08/12/22 11:11	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L		08/10/22 07:53	08/12/22 11:11	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		08/10/22 07:53	08/12/22 11:11	1
2-Methylphenol	<0.24		1.6	0.24	ug/L		08/10/22 07:53	08/12/22 11:11	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L		08/10/22 07:53	08/12/22 11:11	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L		08/10/22 07:53	08/12/22 11:11	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L		08/10/22 07:53	08/12/22 11:11	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L		08/10/22 07:53	08/12/22 11:11	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L		08/10/22 07:53	08/12/22 11:11	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L		08/10/22 07:53	08/12/22 11:11	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L		08/10/22 07:53	08/12/22 11:11	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L		08/10/22 07:53	08/12/22 11:11	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L		08/10/22 07:53	08/12/22 11:11	1
4-Chlorophenyl phenyl ether	<0.51		4.0	0.51	ug/L		08/10/22 07:53	08/12/22 11:11	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L		08/10/22 07:53	08/12/22 11:11	1
4-Nitrophenol	<5.9		16	5.9	ug/L		08/10/22 07:53	08/12/22 11:11	1
Acenaphthene	<0.25		0.80	0.25	ug/L		08/10/22 07:53	08/12/22 11:11	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		08/10/22 07:53	08/12/22 11:11	1
Anthracene	<0.27		0.80	0.27	ug/L		08/10/22 07:53	08/12/22 11:11	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		08/10/22 07:53	08/12/22 11:11	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		08/10/22 07:53	08/12/22 11:11	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		08/10/22 07:53	08/12/22 11:11	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		08/10/22 07:53	08/12/22 11:11	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		08/10/22 07:53	08/12/22 11:11	1
Benzoic acid	<4.6		16	4.6	ug/L		08/10/22 07:53	08/12/22 11:11	1
Benzyl alcohol	<4.8		16	4.8	ug/L		08/10/22 07:53	08/12/22 11:11	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L		08/10/22 07:53	08/12/22 11:11	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L		08/10/22 07:53	08/12/22 11:11	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L		08/10/22 07:53	08/12/22 11:11	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L		08/10/22 07:53	08/12/22 11:11	1
Carbazole	<0.28		4.0	0.28	ug/L		08/10/22 07:53	08/12/22 11:11	1
Chrysene	<0.055		0.16	0.055	ug/L		08/10/22 07:53	08/12/22 11:11	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		08/10/22 07:53	08/12/22 11:11	1
Dibenzofuran	<0.21		1.6	0.21	ug/L		08/10/22 07:53	08/12/22 11:11	1
Diethyl phthalate	<0.29		4.0	0.29	ug/L		08/10/22 07:53	08/12/22 11:11	1

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-669248/1-A

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669248

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<0.25				4.0	0.25	ug/L		08/10/22 07:53	08/12/22 11:11	1
Di-n-butyl phthalate	<0.58				4.0	0.58	ug/L		08/10/22 07:53	08/12/22 11:11	1
Di-n-octyl phthalate	<0.84				8.0	0.84	ug/L		08/10/22 07:53	08/12/22 11:11	1
Fluoranthene	<0.36				0.80	0.36	ug/L		08/10/22 07:53	08/12/22 11:11	1
Fluorene	<0.20				0.80	0.20	ug/L		08/10/22 07:53	08/12/22 11:11	1
Hexachlorobenzene	<0.064				0.40	0.064	ug/L		08/10/22 07:53	08/12/22 11:11	1
Hexachlorobutadiene	<0.41				4.0	0.41	ug/L		08/10/22 07:53	08/12/22 11:11	1
Hexachlorocyclopentadiene	<5.1				16	5.1	ug/L		08/10/22 07:53	08/12/22 11:11	1
Hexachloroethane	<0.48				4.0	0.48	ug/L		08/10/22 07:53	08/12/22 11:11	1
Indeno[1,2,3-cd]pyrene	<0.060				0.16	0.060	ug/L		08/10/22 07:53	08/12/22 11:11	1
Isophorone	<0.30				1.6	0.30	ug/L		08/10/22 07:53	08/12/22 11:11	1
Naphthalene	<0.25				0.80	0.25	ug/L		08/10/22 07:53	08/12/22 11:11	1
Nitrobenzene	<0.36				0.80	0.36	ug/L		08/10/22 07:53	08/12/22 11:11	1
N-Nitrosodi-n-propylamine	<0.12				0.40	0.12	ug/L		08/10/22 07:53	08/12/22 11:11	1
N-Nitrosodiphenylamine	<0.30				1.6	0.30	ug/L		08/10/22 07:53	08/12/22 11:11	1
Pentachlorophenol	<3.2				16	3.2	ug/L		08/10/22 07:53	08/12/22 11:11	1
Phenanthrene	<0.24				0.80	0.24	ug/L		08/10/22 07:53	08/12/22 11:11	1
Phenol	<0.54				4.0	0.54	ug/L		08/10/22 07:53	08/12/22 11:11	1
Pyrene	<0.34				0.80	0.34	ug/L		08/10/22 07:53	08/12/22 11:11	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		40 - 145			08/10/22 07:53	08/12/22 11:11	1
2-Fluorobiphenyl (Surr)	96		34 - 110			08/10/22 07:53	08/12/22 11:11	1
2-Fluorophenol (Surr)	84		27 - 110			08/10/22 07:53	08/12/22 11:11	1
Nitrobenzene-d5 (Surr)	79		36 - 120			08/10/22 07:53	08/12/22 11:11	1
Phenol-d5 (Surr)	45		20 - 110			08/10/22 07:53	08/12/22 11:11	1
Terphenyl-d14 (Surr)	128		40 - 145			08/10/22 07:53	08/12/22 11:11	1

Lab Sample ID: LCS 500-669248/2-A

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669248

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits
	Added								
1,2,4-Trichlorobenzene	32.0		18.7			ug/L		58	26 - 110
1,2-Dichlorobenzene	32.0		19.4			ug/L		61	26 - 110
1,3-Dichlorobenzene	32.0		19.0			ug/L		60	22 - 110
1,4-Dichlorobenzene	32.0		19.0			ug/L		59	23 - 110
1-Methylnaphthalene	32.0		22.9			ug/L		72	38 - 110
2,2'-oxybis[1-chloropropane]	32.0		23.5			ug/L		73	38 - 140
2,4,5-Trichlorophenol	32.0		27.3			ug/L		85	63 - 124
2,4,6-Trichlorophenol	32.0		26.3			ug/L		82	62 - 121
2,4-Dichlorophenol	32.0		22.9			ug/L		72	58 - 120
2,4-Dimethylphenol	32.0		25.3			ug/L		79	51 - 115
2,4-Dinitrophenol	64.0		46.2			ug/L		72	37 - 130
2,4-Dinitrotoluene	32.0		27.3			ug/L		85	63 - 129
2,6-Dinitrotoluene	32.0		27.4			ug/L		86	63 - 129
2-Chloronaphthalene	32.0		23.6			ug/L		74	39 - 110
2-Chlorophenol	32.0		26.5			ug/L		83	59 - 110

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-669248/2-A

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	32.0	22.7		ug/L	71	34 - 110	
2-Methylphenol	32.0	24.3		ug/L	76	53 - 115	
2-Nitroaniline	32.0	29.1		ug/L	91	59 - 138	
2-Nitrophenol	32.0	25.0		ug/L	78	59 - 115	
3 & 4 Methylphenol	32.0	24.4		ug/L	76	50 - 116	
3,3'-Dichlorobenzidine	32.0	26.1		ug/L	81	60 - 132	
3-Nitroaniline	32.0	24.2		ug/L	76	47 - 123	
4,6-Dinitro-2-methylphenol	64.0	50.3		ug/L	79	50 - 129	
4-Bromophenyl phenyl ether	32.0	24.6		ug/L	77	58 - 120	
4-Chloro-3-methylphenol	32.0	28.4		ug/L	89	64 - 128	
4-Chloroaniline	32.0	21.8		ug/L	68	35 - 128	
4-Chlorophenyl phenyl ether	32.0	25.0		ug/L	78	48 - 116	
4-Nitroaniline	32.0	19.8		ug/L	62	35 - 110	
4-Nitrophenol	64.0	33.1		ug/L	52	20 - 110	
Acenaphthene	32.0	27.7		ug/L	87	46 - 110	
Acenaphthylene	32.0	28.4		ug/L	89	47 - 113	
Anthracene	32.0	31.2		ug/L	97	67 - 118	
Benzo[a]anthracene	32.0	31.4		ug/L	98	70 - 126	
Benzo[a]pyrene	32.0	30.6		ug/L	96	70 - 135	
Benzo[b]fluoranthene	32.0	30.2		ug/L	94	69 - 136	
Benzo[g,h,i]perylene	32.0	35.6		ug/L	111	70 - 135	
Benzo[k]fluoranthene	32.0	33.0		ug/L	103	70 - 133	
Benzoic acid	64.0	31.3		ug/L	49	10 - 112	
Benzyl alcohol	32.0	24.5		ug/L	76	46 - 132	
Bis(2-chloroethoxy)methane	32.0	26.2		ug/L	82	59 - 118	
Bis(2-chloroethyl)ether	32.0	28.2		ug/L	88	54 - 112	
Bis(2-ethylhexyl) phthalate	32.0	34.3		ug/L	107	69 - 136	
Butyl benzyl phthalate	32.0	34.8		ug/L	109	68 - 135	
Carbazole	32.0	34.1		ug/L	106	61 - 145	
Chrysene	32.0	31.7		ug/L	99	68 - 129	
Dibenz(a,h)anthracene	32.0	31.9		ug/L	100	70 - 134	
Dibenzofuran	32.0	28.0		ug/L	87	51 - 110	
Diethyl phthalate	32.0	31.4		ug/L	98	62 - 123	
Dimethyl phthalate	32.0	30.2		ug/L	94	63 - 122	
Di-n-butyl phthalate	32.0	34.1		ug/L	107	69 - 129	
Di-n-octyl phthalate	32.0	35.5		ug/L	111	68 - 137	
Fluoranthene	32.0	32.6		ug/L	102	68 - 126	
Fluorene	32.0	27.7		ug/L	87	53 - 120	
Hexachlorobenzene	32.0	27.3		ug/L	85	61 - 126	
Hexachlorobutadiene	32.0	15.9		ug/L	50	20 - 100	
Hexachlorocyclopentadiene	32.0	8.50 J		ug/L	27	10 - 105	
Hexachloroethane	32.0	17.6		ug/L	55	20 - 100	
Indeno[1,2,3-cd]pyrene	32.0	32.5		ug/L	101	65 - 133	
Isophorone	32.0	26.7		ug/L	83	54 - 127	
Naphthalene	32.0	22.9		ug/L	72	36 - 110	
Nitrobenzene	32.0	24.4		ug/L	76	54 - 121	
N-Nitrosodi-n-propylamine	32.0	25.6		ug/L	80	47 - 131	
N-Nitrosodiphenylamine	32.0	31.0		ug/L	97	66 - 120	
Pentachlorophenol	64.0	35.9		ug/L	56	42 - 148	

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-669248/2-A

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	32.0	29.7		ug/L		93	65 - 120
Phenol	32.0	21.6		ug/L		68	33 - 100
Pyrene	32.0	34.4		ug/L		108	70 - 126

Surrogate	%Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	79		40 - 145
2-Fluorobiphenyl (Surr)	83		34 - 110
2-Fluorophenol (Surr)	76		27 - 110
Nitrobenzene-d5 (Surr)	73		36 - 120
Phenol-d5 (Surr)	56		20 - 110
Terphenyl-d14 (Surr)	106		40 - 145

Lab Sample ID: LCSD 500-669248/3-A

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 669248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	32.0	20.9		ug/L		65	26 - 110	11	20
1,2-Dichlorobenzene	32.0	22.1		ug/L		69	26 - 110	13	20
1,3-Dichlorobenzene	32.0	21.6		ug/L		67	22 - 110	12	20
1,4-Dichlorobenzene	32.0	21.8		ug/L		68	23 - 110	14	20
1-Methylnaphthalene	32.0	25.2		ug/L		79	38 - 110	10	20
2,2'-oxybis[1-chloropropane]	32.0	26.0		ug/L		81	38 - 140	10	20
2,4,5-Trichlorophenol	32.0	29.7		ug/L		93	63 - 124	8	20
2,4,6-Trichlorophenol	32.0	28.9		ug/L		90	62 - 121	9	20
2,4-Dichlorophenol	32.0	25.8		ug/L		81	58 - 120	12	20
2,4-Dimethylphenol	32.0	27.0		ug/L		84	51 - 115	7	20
2,4-Dinitrophenol	64.0	52.4		ug/L		82	37 - 130	13	20
2,4-Dinitrotoluene	32.0	30.3		ug/L		95	63 - 129	10	20
2,6-Dinitrotoluene	32.0	30.2		ug/L		94	63 - 129	10	20
2-Chloronaphthalene	32.0	26.7		ug/L		84	39 - 110	13	20
2-Chlorophenol	32.0	29.5		ug/L		92	59 - 110	11	20
2-Methylnaphthalene	32.0	25.2		ug/L		79	34 - 110	10	20
2-Methylphenol	32.0	26.1		ug/L		82	53 - 115	7	20
2-Nitroaniline	32.0	32.6		ug/L		102	59 - 138	11	20
2-Nitrophenol	32.0	27.7		ug/L		87	59 - 115	10	20
3 & 4 Methylphenol	32.0	26.8		ug/L		84	50 - 116	9	20
3,3'-Dichlorobenzidine	32.0	27.8		ug/L		87	60 - 132	6	20
3-Nitroaniline	32.0	26.4		ug/L		83	47 - 123	9	20
4,6-Dinitro-2-methylphenol	64.0	56.1		ug/L		88	50 - 129	11	20
4-Bromophenyl phenyl ether	32.0	26.9		ug/L		84	58 - 120	9	20
4-Chloro-3-methylphenol	32.0	30.8		ug/L		96	64 - 128	8	20
4-Chloroaniline	32.0	24.4		ug/L		76	35 - 128	11	20
4-Chlorophenyl phenyl ether	32.0	28.1		ug/L		88	48 - 116	11	20
4-Nitroaniline	32.0	20.8		ug/L		65	35 - 110	5	20
4-Nitrophenol	64.0	36.7		ug/L		57	20 - 110	10	20
Acenaphthene	32.0	30.5		ug/L		95	46 - 110	10	20
Acenaphthylene	32.0	31.4		ug/L		98	47 - 113	10	20

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-669248/3-A

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 669248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Anthracene	32.0	33.8		ug/L		106	67 - 118	8	20
Benzo[a]anthracene	32.0	34.2		ug/L		107	70 - 126	8	20
Benzo[a]pyrene	32.0	33.4		ug/L		104	70 - 135	9	20
Benzo[b]fluoranthene	32.0	32.8		ug/L		102	69 - 136	8	20
Benzo[g,h,i]perylene	32.0	38.8		ug/L		121	70 - 135	8	20
Benzo[k]fluoranthene	32.0	36.9		ug/L		115	70 - 133	11	20
Benzoic acid	64.0	32.6		ug/L		51	10 - 112	4	20
Benzyl alcohol	32.0	27.5		ug/L		86	46 - 132	12	20
Bis(2-chloroethoxy)methane	32.0	29.1		ug/L		91	59 - 118	10	20
Bis(2-chloroethyl)ether	32.0	30.2		ug/L		94	54 - 112	7	20
Bis(2-ethylhexyl) phthalate	32.0	37.2		ug/L		116	69 - 136	8	20
Butyl benzyl phthalate	32.0	38.2		ug/L		119	68 - 135	9	20
Carbazole	32.0	37.8		ug/L		118	61 - 145	10	20
Chrysene	32.0	34.6		ug/L		108	68 - 129	9	20
Dibenz(a,h)anthracene	32.0	34.8		ug/L		109	70 - 134	9	20
Dibenzofuran	32.0	30.7		ug/L		96	51 - 110	9	20
Diethyl phthalate	32.0	34.5		ug/L		108	62 - 123	9	20
Dimethyl phthalate	32.0	33.5		ug/L		105	63 - 122	10	20
Di-n-butyl phthalate	32.0	37.0		ug/L		116	69 - 129	8	20
Di-n-octyl phthalate	32.0	39.7		ug/L		124	68 - 137	11	20
Fluoranthene	32.0	36.8		ug/L		115	68 - 126	12	20
Fluorene	32.0	30.6		ug/L		95	53 - 120	10	20
Hexachlorobenzene	32.0	30.0		ug/L		94	61 - 126	9	20
Hexachlorobutadiene	32.0	17.7		ug/L		55	20 - 100	11	20
Hexachlorocyclopentadiene	32.0	9.78 J		ug/L		31	10 - 105	14	20
Hexachloroethane	32.0	19.6		ug/L		61	20 - 100	10	20
Indeno[1,2,3-cd]pyrene	32.0	35.1		ug/L		110	65 - 133	8	20
Isophorone	32.0	29.5		ug/L		92	54 - 127	10	20
Naphthalene	32.0	25.8		ug/L		81	36 - 110	12	20
Nitrobenzene	32.0	27.3		ug/L		85	54 - 121	12	20
N-Nitrosodi-n-propylamine	32.0	27.9		ug/L		87	47 - 131	9	20
N-Nitrosodiphenylamine	32.0	34.3		ug/L		107	66 - 120	10	20
Pentachlorophenol	64.0	39.9		ug/L		62	42 - 148	11	20
Phenanthrene	32.0	33.6		ug/L		105	65 - 120	13	20
Phenol	32.0	23.2		ug/L		73	33 - 100	7	20
Pyrene	32.0	37.0		ug/L		116	70 - 126	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		40 - 145
2-Fluorobiphenyl (Surr)	89		34 - 110
2-Fluorophenol (Surr)	79		27 - 110
Nitrobenzene-d5 (Surr)	78		36 - 120
Phenol-d5 (Surr)	57		20 - 110
Terphenyl-d14 (Surr)	109		40 - 145

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-636742/1-A

Matrix: Water

Analysis Batch: 637259

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	<0.10		0.20	0.10	ug/L		08/09/22 15:53	08/12/22 15:06	1
Isotope Dilution									
1,4-Dioxane-d8									
	MB	MB							
	%Recovery	Qualifier	Limits						
	33		15 - 110						
	Prepared	Analyzed	Dil Fac						
	08/09/22 15:53	08/12/22 15:06	1						

Lab Sample ID: LCS 480-636742/2-A

Matrix: Water

Analysis Batch: 637259

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier								
1,4-Dioxane			2.00	2.55		ug/L		127	40 - 140	
Isotope Dilution										
1,4-Dioxane-d8										
	LCSD	LCSD								
	%Recovery	Qualifier	Limits							
	49		15 - 110							

Lab Sample ID: LCSD 480-636742/3-A

Matrix: Water

Analysis Batch: 637259

Analyte	MB	MB	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD
	Result	Qualifier								
1,4-Dioxane			2.00	2.56		ug/L		128	40 - 140	0
Isotope Dilution										
1,4-Dioxane-d8										
	LCSD	LCSD								
	%Recovery	Qualifier	Limits							
	44		15 - 110							

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-669586/1-A

Matrix: Water

Analysis Batch: 670133

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.067		0.40	0.067	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1221	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1232	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1242	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1248	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1254	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1260	<0.070		0.40	0.070	ug/L		08/11/22 13:32	08/16/22 09:36	1
Surrogate									
Tetrachloro-m-xylene									
	MB	MB							
	%Recovery	Qualifier	Limits						
	77		30 - 120						
	DCB Decachlorobiphenyl								
	102		30 - 140						
	Prepared	Analyzed	Dil Fac						
	08/11/22 13:32	08/16/22 09:36	1						
	08/11/22 13:32	08/16/22 09:36	1						

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-669586/2-A

Matrix: Water

Analysis Batch: 670133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	2.65		ug/L		66	56 - 120
PCB-1260	4.00	3.32		ug/L		83	53 - 137
Surrogate							
<i>Tetrachloro-m-xylene</i> 58 30 - 120							
<i>DCB Decachlorobiphenyl</i> 93 30 - 140							

Lab Sample ID: LCSD 500-669586/3-A

Matrix: Water

Analysis Batch: 670133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 669586

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD
PCB-1016	4.00	2.95		ug/L		74	56 - 120
PCB-1260	4.00	3.60		ug/L		90	53 - 137
Surrogate							
<i>Tetrachloro-m-xylene</i> 65 30 - 120							
<i>DCB Decachlorobiphenyl</i> 106 30 - 140							

Lab Sample ID: MB 500-670637/1-A

Matrix: Water

Analysis Batch: 670742

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 670637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		08/18/22 08:52	08/18/22 16:08	1
PCB-1221	<0.20		0.40	0.20	ug/L		08/18/22 08:52	08/18/22 16:08	1
PCB-1232	<0.20		0.40	0.20	ug/L		08/18/22 08:52	08/18/22 16:08	1
PCB-1242	<0.20		0.40	0.20	ug/L		08/18/22 08:52	08/18/22 16:08	1
PCB-1248	<0.20		0.40	0.20	ug/L		08/18/22 08:52	08/18/22 16:08	1
PCB-1254	<0.20		0.40	0.20	ug/L		08/18/22 08:52	08/18/22 16:08	1
PCB-1260	<0.070		0.40	0.070	ug/L		08/18/22 08:52	08/18/22 16:08	1
Surrogate								Prepared	Analyzed
<i>Tetrachloro-m-xylene</i> 65 30 - 120								08/18/22 08:52	08/18/22 16:08
<i>DCB Decachlorobiphenyl</i> 90 30 - 140								08/18/22 08:52	08/18/22 16:08

Lab Sample ID: LCS 500-670637/4-A

Matrix: Water

Analysis Batch: 670742

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 670637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	2.75		ug/L		69	56 - 120
PCB-1260	4.00	3.08		ug/L		77	53 - 137
Surrogate							
<i>Tetrachloro-m-xylene</i> 69 30 - 120							
<i>DCB Decachlorobiphenyl</i> 93 30 - 140							

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 500-670637/5-A

Matrix: Water

Analysis Batch: 670742

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 670637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	4.00	2.66		ug/L		67	56 - 120	3	20
PCB-1260	4.00	3.10		ug/L		78	53 - 137	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	71		30 - 120
DCB Decachlorobiphenyl	90		30 - 140

Lab Chronicle

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-2
Date Collected: 08/04/22 13:45
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	669702	W1T	EET CHI	08/12/22 16:34
Total/NA	Prep	3510C			669248	FRG	EET CHI	08/10/22 07:53
Total/NA	Analysis	8270D		1	669712	JSB	EET CHI	08/12/22 12:22
Total/NA	Prep	3510C			636742	CMC	EET BUF	08/09/22 15:53
Total/NA	Analysis	8270D SIM ID		1	637259	PJQ	EET BUF	08/12/22 19:48
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		2	670358	NB	EET CHI	08/17/22 08:16

Client Sample ID: EB-MW-4RR
Date Collected: 08/04/22 14:00
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			636742	CMC	EET BUF	08/09/22 15:53
Total/NA	Analysis	8270D SIM ID		1	637259	PJQ	EET BUF	08/12/22 20:10

Client Sample ID: EB-MW-6
Date Collected: 08/05/22 09:30
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 17:27
Total/NA	Prep	3510C			669248	FRG	EET CHI	08/10/22 07:53
Total/NA	Analysis	8270D		1	669712	JSB	EET CHI	08/12/22 12:46
Total/NA	Prep	3510C			670637	FRG	EET CHI	08/18/22 08:52
Total/NA	Analysis	8082A		1	670742	SS	EET CHI	08/18/22 17:13

Client Sample ID: EB-MW-5
Date Collected: 08/05/22 09:45
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 17:54
Total/NA	Prep	3510C			669248	FRG	EET CHI	08/10/22 07:53
Total/NA	Analysis	8270D		1	669712	JSB	EET CHI	08/12/22 13:10
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		1	670133	SS	EET CHI	08/16/22 12:01

Client Sample ID: EB-MW-4RR
Date Collected: 08/05/22 12:00
Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-11
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 19:14

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Lab Chronicle

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Client Sample ID: EB-MW-4RR

Date Collected: 08/05/22 12:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			669248	FRG	EET CHI	08/10/22 07:53
Total/NA	Analysis	8270D		1	669712	JSB	EET CHI	08/12/22 16:14
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		1	670133	SS	EET CHI	08/16/22 12:49

Client Sample ID: DUPLICATE 2

Date Collected: 08/05/22 00:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 19:41

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-22
Illinois	NELAP	200003	09-30-22
Iowa	State	374	03-01-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23
Kentucky (DW)	State	90029	12-31-22
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22
Maryland	State	294	03-31-23
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-22
Washington	State	C784	02-10-23
Wisconsin	State	998310390	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago

Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-220496-1

Login Number: 220496

List Source: Eurofins Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True		1
The cooler's custody seal, if present, is intact.	True		2
Sample custody seals, if present, are intact.	True		3
The cooler or samples do not appear to have been compromised or tampered with.	True		4
Samples were received on ice.	True		5
Cooler Temperature is acceptable.	True		6
Cooler Temperature is recorded.	True	3.2,3.6	7
COC is present.	True		8
COC is filled out in ink and legible.	True		9
COC is filled out with all pertinent information.	True		10
Is the Field Sampler's name present on COC?	True		11
There are no discrepancies between the containers received and the COC.	True		12
Samples are received within Holding Time (excluding tests with immediate HTs)	True		13
Sample containers have legible labels.	True		14
Containers are not broken or leaking.	True		15
Sample collection date/times are provided.	True		16
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-220496-1

Login Number: 220496

List Number: 2

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

List Creation: 08/09/22 12:55 PM

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	True		1
The cooler's custody seal, if present, is intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True	3.3 ICE	6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		15
Appropriate sample containers are used.	True		16
Sample bottles are completely filled.	True		
Sample Preservation Verified	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True		
If necessary, staff have been informed of any short hold time or quick TAT needs	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Sampling Company provided.	True		
Samples received within 48 hours of sampling.	True		
Samples requiring field filtration have been filtered in the field.	True		
Chlorine Residual checked.	True		

Isotope Dilution Summary

Client: K. Singh & Associates, Inc
Project/Site: East Block CWC - 40441

Job ID: 500-220496-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Ground Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	DXE (15-110)	Percent Isotope Dilution Recovery (Acceptance Limits)					
			_____	_____	_____	_____	_____	_____
500-220496-4	EB-MW-2	46	_____	_____	_____	_____	_____	_____
500-220496-5	EB-MW-4RR	46	_____	_____	_____	_____	_____	_____
Surrogate Legend								
DXE = 1,4-Dioxane-d8								

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	DXE (15-110)	Percent Isotope Dilution Recovery (Acceptance Limits)					
			_____	_____	_____	_____	_____	_____
LCS 480-636742/2-A	Lab Control Sample	49	_____	_____	_____	_____	_____	_____
LCSD 480-636742/3-A	Lab Control Sample Dup	44	_____	_____	_____	_____	_____	_____
MB 480-636742/1-A	Method Blank	33	_____	_____	_____	_____	_____	_____
Surrogate Legend								
DXE = 1,4-Dioxane-d8								